

The Storm Sewer System AQUATUB-Rw

The key advantages of PE-HD storm sewer system AQUATUB-Rw

The pipe joint

- Double-layer, monolithic, integral coupling
- No gap between socket and spigot ends
- Optimised assembly, only one seal

The raw material (PE-HD)

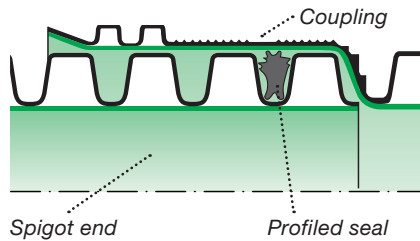
- Superior impact resistance, even at low temperatures
- Excellent abrasion resistance (of particular importance in case of waste waters with high sediment load)





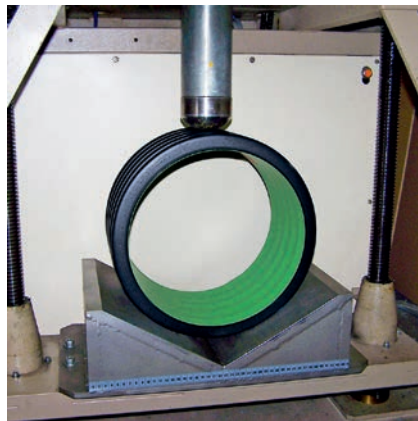
The pipe joint

AQUATUB-*Rw* storm sewer pipes are provided with a double-layer, monolithic coupling by way of extrusion. The geometry of the pipe joint ensures a gap-free transition between the socket mouth and the pipe's spigot end.



The raw material used (PE-HD)

As against other thermoplastic materials known to be used for storm sewer pipes (PP and PVC), PE-HD imparts AQUATUB-*Rw* pipes an excellent impact resistance and thus high reliability as to damages caused by rough handling on the site. Even when subjected to impact loading at -20 °C with a drop weight of 12.5 kg from a height of 2.0 m, none of the nominal sizes showed any damages at the pipe inner surface. Corresponding tests were carried out in compliance with the test conditions specified in DIN EN 1411.

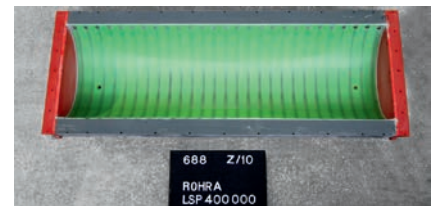


AQUATUB-*Rw* DN 300

The HEGLER manufacturing process offers the following key advantages:

- High stability of the joint (compared to one-layer inline formed couplings)
- No material flaws or inhomogeneities between pipe and socket (compared to welded or injection-moulded couplings)
- Quick assembly with only one profiled seal per joint (compared to sleeves)

Moreover, AQUATUB-*Rw* stands out against the conventional materials mentioned by its superior abrasion resistance. 400,000 load cycles of abrasion tests in accordance with DIN EN 295-3 did not harm the bright inner surface at any point along the twin wall pipe. This excellent abrasion resistance, which can only be guaranteed with virgin material, has also been verified by scientific investigations on sludge highly loaded with sediments (WO 2008/84140 A1 refers).



Original condition (top)
Condition after test (bottom)

HEGLER

Corrugated and Twin Wall Pipes of Plastics

