

# Cost Comparison – Detached House

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Initial situation: 1 bathroom 7.5 m<sup>2</sup>, tiles up to the ceiling, fit out with bathtub, shower tub, washstand, toilet, 1 guest toilet 2.5 m<sup>2</sup>, tiles up to the ceiling, fit out with hand basin with cold water tap, toilet, kitchen with hot and cold-water tap, 1 riser for bathroom and 1 riser for guest toilet and kitchen, tap for washing machine

## Conventional replacement of the drinking water pipes

- Removing the sanitary equipment (bathtub, shower tub, washstand, hand basin toilet and all fittings)
- Opening the walls, ceilings and floors; disposing of the demolition material; removing the old supply pipes, risers and distributing pipes in the cellar up to the cold-water meter
- Disposing of the old pipes and insulation material
- Replacing the cold / hot-water pipes, circulating pipes, risers and distributing pipes in the cellar with plastic pipes using the dismantled fittings (e.g. pre-filters, check valves etc.) and the necessary adapters and boltings
- Insulating the complete pipe system in accordance with the German Regulation on Heating Systems (Heizanlagenverordnung)
- Closing the walls, ceilings and floors
- Fitting the bathtub and shower tub using the necessary supports
- Preparing the walls and floors in the wet-rooms (plastering and levelling open areas, roughening existing tiles and treating them with contact adhesive) so that new tiles can be laid; tiling the walls and floors in the wet-rooms
- Pointing the tiles and filling the expansion joints with a permanently elastic sealing compound
- Closing the remaining open areas, plastering and levelling them so that wallpaper can be applied, wallpapering these areas and painting them, if necessary
- Installing the sanitary equipment, caulking the bathtub, shower tub, hand basin and toilet with a permanently elastic sealing compound

Total costs including VAT: approximately EUR 15,000

## Internal repair of the drinking water pipes carried out by Donauer & Probst GmbH & Co. KG

- Removing the fittings and right-angle valves, opening the pipes at the risers
- Drying the pipes to be repaired
- Cleaning and sandblasting the risers and distributing pipes in both directions, inspecting the cleaning results using an endoscope
- Coating the pipes with food-safe epoxy resin, inspecting the coating using an endoscope
- Repairing or replacing the distributing pipes in the cellar, installing the fittings and right-angle valves

Total costs including VAT: approximately EUR 7,000

Conventional replacement

Total costs: approx. EUR 15,000

Internal repair carried out by Donauer & Probst

Total costs: approx. EUR 7,000

Cost-saving: approx. EUR 8,000

## Your cost-saving made possible through internal pipe repair: approximately EUR 8,000

(The mentioned prices are based on an average calculation and can differ in individual cases.)