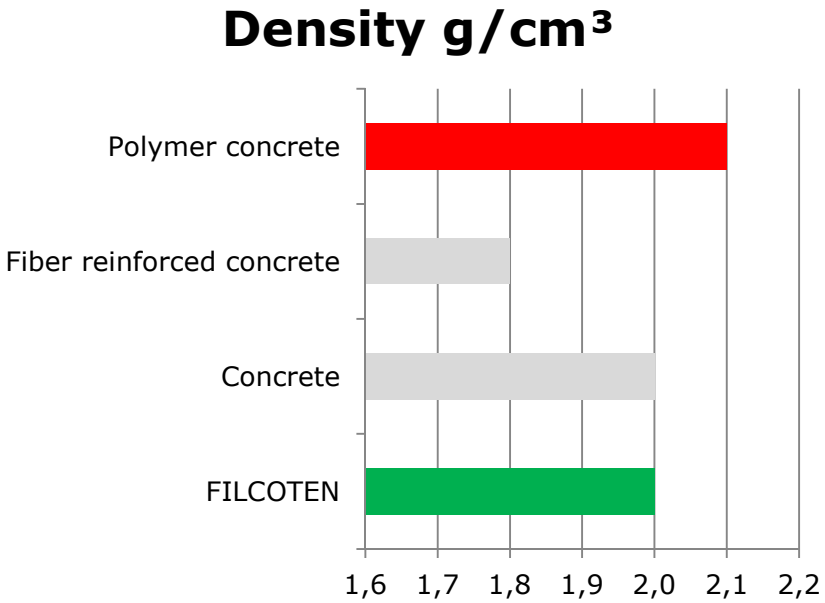
FILCOTEN®

MIFAB®

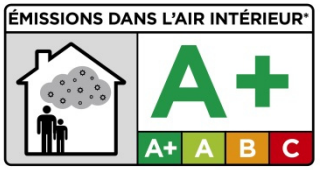
Filcoten vs. Polymer trench drain

Key facts of Filcoten



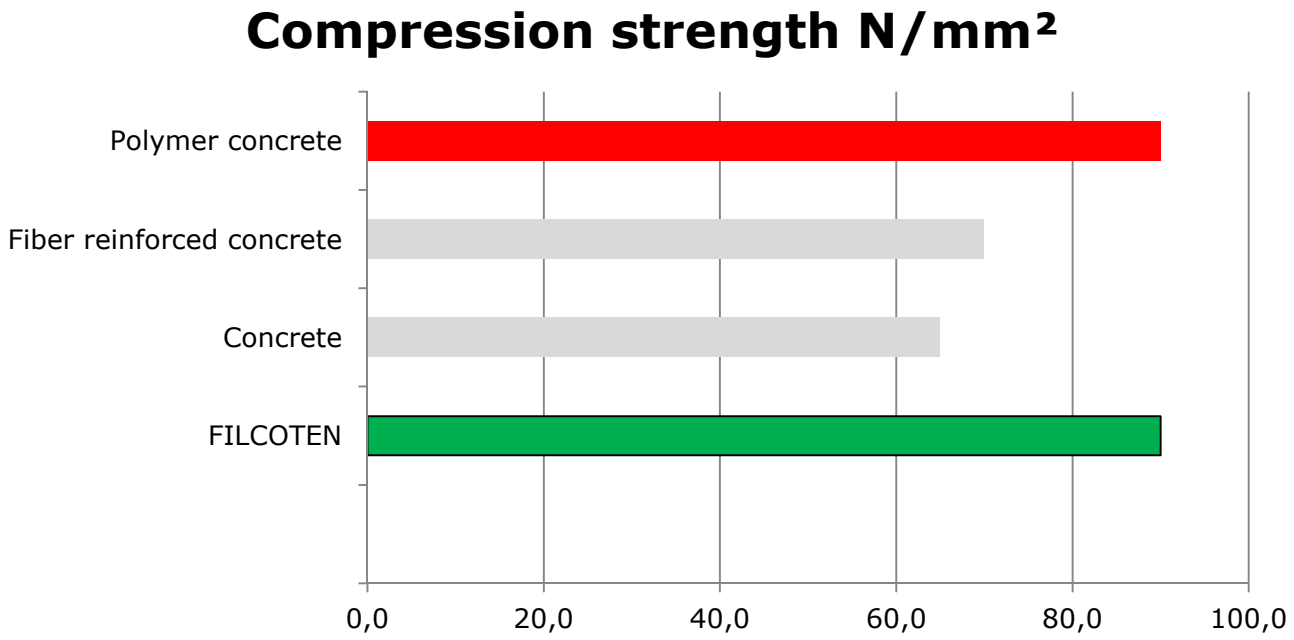
- Filcoten is a cement based composite, with 4 to 5 times higher content of fibres than regular fibre reinforced concrete products.
- Filcoten is absolutely free of chemical components like resins, catalysts etc.
- Filcoten components are produced free of releasant agents.
- Filcoten has an optimal adhesion to surrounding concrete.

Sustainable

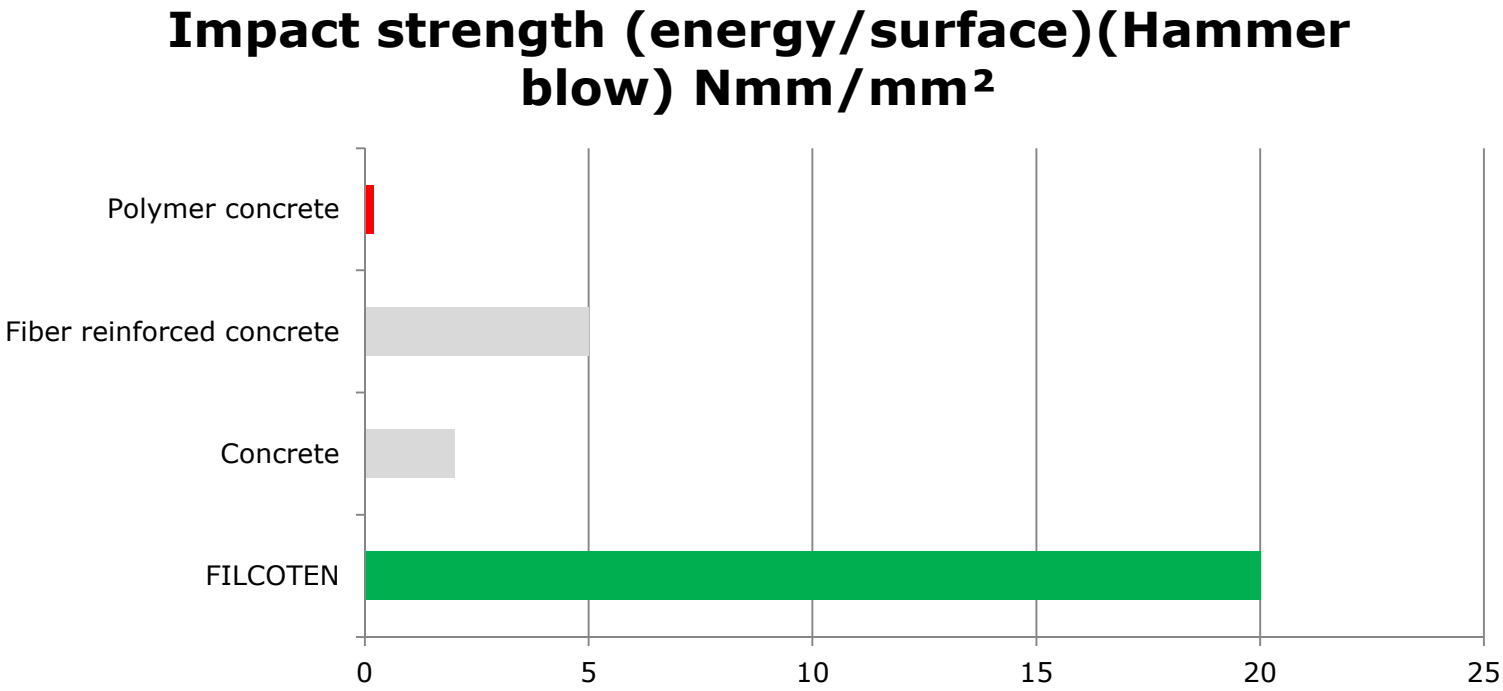


- Filcoten is free of resins, heavy metals and solvants.
- Filcoten is 100% recyclable.
- Filcoten can be used in internal living spaces.
- No aggressive agents are released when machined (Please still use mask to protect from fine dust, like for concrete machining)

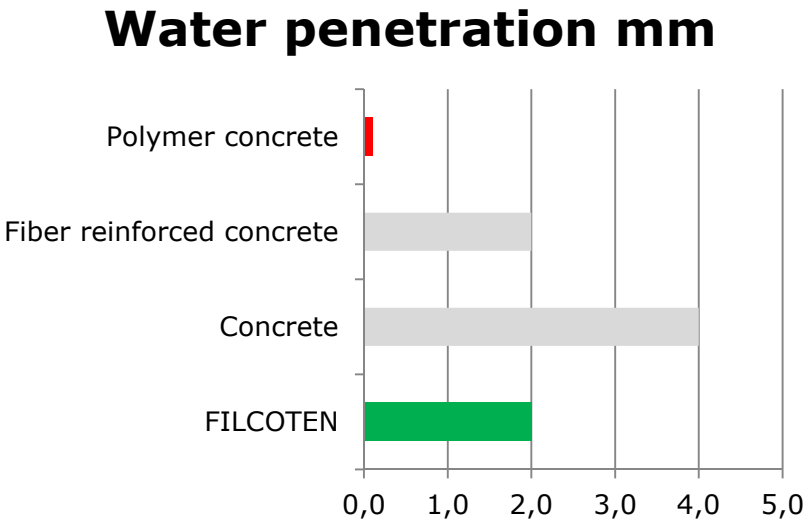
Compression strength comparison



Impact resistance

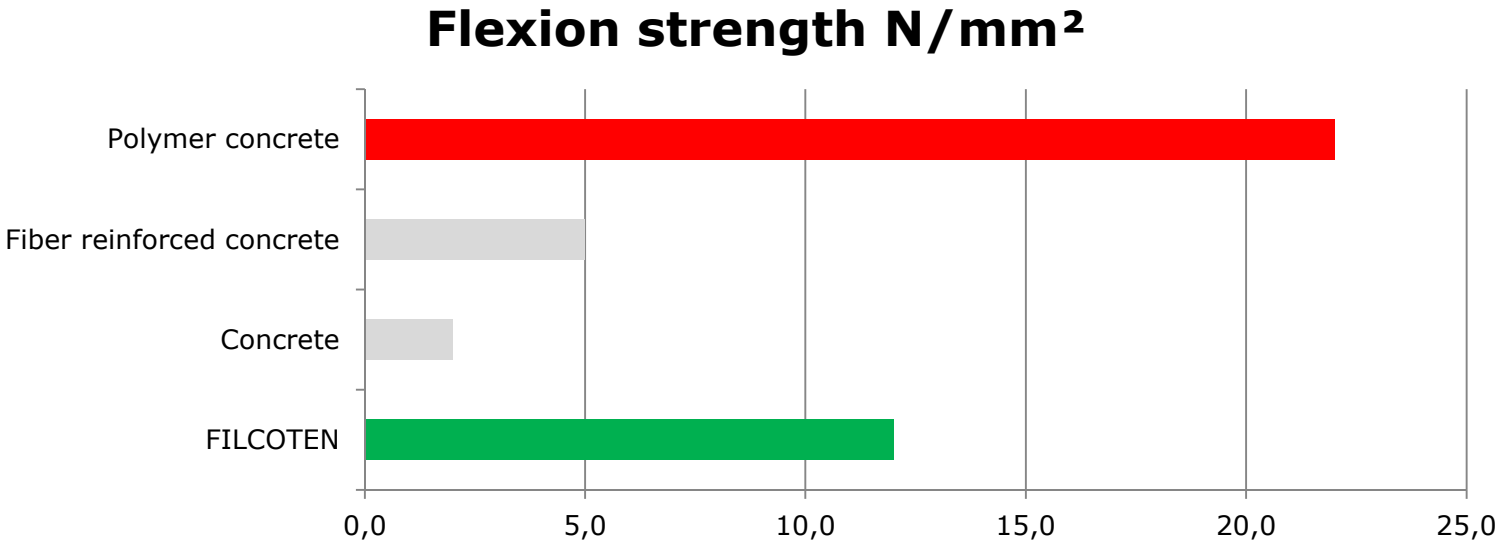


Frost resistance



- Filcoten will absorb substantially less water than standard concrete.
- Frost damages occur mainly in the surrounding concrete due to water infiltration between the prefabricated components.
- Plastic and polymer concrete components are prone to separation with the surrounding concrete - which leads to water infiltration due to:
  - Non-grip surface
  - Use of releasant agents (polymer concrete)
  - Different material expansion (HDPE & PP)
- Frost resistance is increased if the prefabricated component will become one monolithic unit with the surrounding concrete with equal mechanical properties (like with the Filcoten product).

Flexion strength comparison



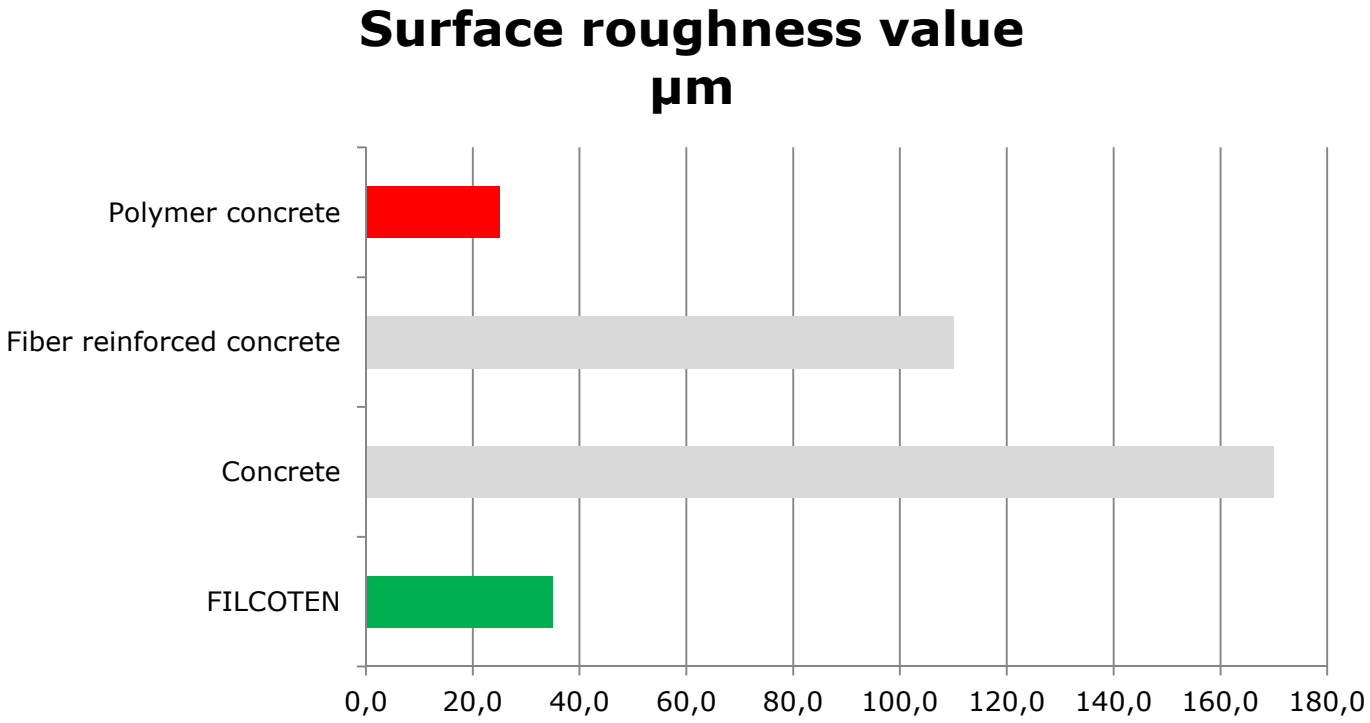
Temperature expansion

- Equal temperature expansion as the surrounding concrete.
- No thermal related stress possible.

Adhesion

- Filcoten is cement based and has the same material properties as concrete.
- Filcoten channels are produced without releasant agents and therefore are absolutely free of grease.
- Filcoten has optimal adhesion to the surrounding concrete.
- Sealant material can be used without degreasing the surface.

Smooth inner surface

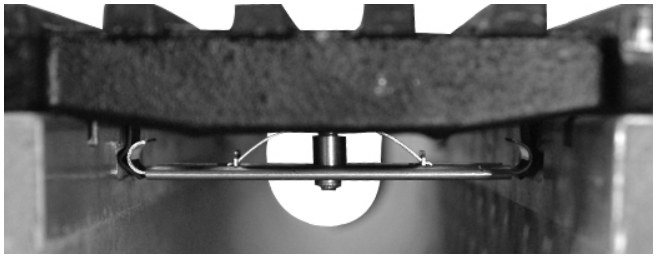


Machining

- Filcoten can be cut and drilled with standard concrete tooling.
- Standard adhesives for concrete can be used.
- Cracks can be fixed unlike with polymer concrete.

Four point grate safety locking system

- Unique 4 point fiX self-locking system with 2 longitudal anti-shifting lugs



- Anti-vandalism locking available for self-locking system (Suffix -6)