

Title (en)

Reinforcement elements for in-situ cast walls and method to excavate in situ cast walls

Title (de)

Verstärkungselemente für Ortbetonwände und Verfahren zur Aushebung von Ortbetonwänden

Title (fr)

Éléments de renforcement pour murs coulés sur site et procédé d'excavation murs coulés sur site

Publication

EP 1964981 A1 20080903 (EN)

Application

EP 08447013 A 20080228

Priority

- EP 07004124 A 20070228
- EP 08447013 A 20080228

Abstract (en)

An elongate reinforcement element for reinforcing an in-situ cast wall module has a substantially rectangular cross-section according to a plane perpendicular to an elongate direction. The cross-section has a first and second long side and a first and a second short side. The elongate reinforcement element comprises a first and a second reinforcement beam fixed to each other by means of a coupling means, the first reinforcement beam being provided at the first short side of the rectangular cross section, the second reinforcement beam being provided at the second short side of the rectangular cross section. Each of the first and second reinforcement beams has two outer flanges coupled by means of a web, the first and second reinforcement beams having their webs substantially parallel with the short side of the rectangular cross-section and the elongate direction. The flanges and the web of the first reinforcement beam create a channel-shaped profile at both sides of the web. Similarly, the flanges and the web of the second reinforcement beam create a channel-shaped profile at least at the side of the web oriented inwards the elongate reinforcement element. The channel-shaped profile oriented outwards the elongate reinforcement element of the first reinforcement beam is filled with sacrificial material. The first reinforcement beam further comprises a ridge being liquid-tightly coupled to the web along the web in elongate direction, the ridge being located at the side of the web of the first reinforcement beam, which side is oriented outwards the elongate reinforcement element.

IPC 8 full level

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CPC (source: EP)

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Citation (applicant)

US 4075852 A 19780228 - TAMARO GEORGE JOHN

Citation (search report)

- [A] US 4877357 A 19891031 - VERSTRAETEN ALEXANDER J [BE]
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Designated contracting state (EPC)

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Designated extension state (EPC)

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