an anchoring system for building constructions that occupies the least possible space inside the concrete, whilst still maintaining excellent anchoring performances.

These aims according to the present invention are accomplished by making an anchoring system for building constructions, in particular an anchoring system of the type able to be pre-installed on concrete structures, as outlined in claim 1.

In accordance with an aspect of the present invention, there is provided anchoring system for building constructions including at least one anchoring profile having a C-shape in cross section, said anchoring profile defining an inner channel and being provided with an outer back, wherein a plurality of anchoring nails configured to be fixed onto a first structural component extends from the outer surface of the outer back, a plurality of connectors configured to be inserted into the inner channel of the anchoring profile, wherein each connector is provided with at least one first connection means with a respective attachment assembly configured to be fixed onto a second structural component, said attachment assembly in turn comprising at least one second connection means able to couple with the first connection means of each connector, wherein each connector has a cross section shape and size compliant to the inner shape of the inner channel of the anchoring profile, and wherein each connector has a length, measured in the longitudinal direction of the anchoring profile, which is greater than the width, measured in the transverse direction of the anchoring profile, of said connector,

the system being **characterized in that** the inner channel has a total height, measured between the outer back and the open upper edge, which is smaller than the width, measured in the transverse direction of the anchoring profile, of said inner channel, **and in that** the anchoring profile is manufactured from steel through a cold lamination process.

Further features of the invention are highlighted by the dependent claims, which are an integral part of the present description.

The features and advantages of an anchoring system for building constructions according to the present invention will become clearer from the following description, given as an example and not for limiting purposes, referring to the attached schematic drawings, in which:

figure 1 is a perspective view of the main components of a preferred embodiment of the anchoring system for building constructions according to the present invention;

figure 2 is a cross section view of the components of figure 1;

figure 3 is a cross section view of a C-shaped anchoring profile belonging to the anchoring system for building constructions according to the present invention;

figure 4 is a first perspective view of the C-shaped anchoring profile of figure 3;

figure 5 is a second perspective view of the C-shaped anchoring profile of figure 3; and

CLAIMS

1. Anchoring system for building constructions comprising:

- at least one anchoring profile having a C-shape in cross section, said anchoring profile defining an inner channel and being provided with an outer back, wherein a plurality of anchoring nails configured to be fixed onto a first structural component extends from the outer surface of the outer back;
- a plurality of connectors configured to be inserted into the inner channel of the anchoring profile, wherein each connector is provided with at least one first connection means with a respective attachment assembly configured to be fixed onto a second structural component, said attachment assembly in turn comprising at least one second connection means able to couple with the first connection means of each connector,

wherein each connector has a cross section shape and size compliant to the inner shape of the inner channel of the anchoring profile, and wherein each connector has a length, measured in the longitudinal direction of the anchoring profile, which is greater than the width, measured in the transverse direction of the anchoring profile, of said connector, the system being **characterized in that** the inner channel has a total height, measured between the outer back and the open upper edge, which is smaller than the width, measured in the transverse direction of the anchoring profile,

of said inner channel, **and in that** the anchoring profile is manufactured from steel through a cold lamination process.

2. Anchoring system according to claim 1, characterised in that the open upper edge of the anchoring profile is provided with a pair of opposite surfaces inclined towards the outer back, each connector being provided with a pair of inclined surfaces engageable in shape coupling with the respective inclined surfaces of the open upper edge of the anchoring profile, so that the contact between the two inclined surfaces of the connector and the two corresponding inclined surfaces of the open upper edge of the anchoring profile allow a stable transfer of loads from said connector to the inner channel.

3. Anchoring system according to claim 2, characterised in that each connector is provided, at the respective inclined surfaces, with a pair of corners having a rounded shape and arranged in order to not generate notches on the inner channel in the assembled configuration of the anchoring system.

4. Anchoring system according to any claims 1 to 3, characterised in that the first connection means of each connector consists of one or more threaded holes in order to allow the subsequent coupling with a respective second connection means of the attachment assembly in turn consisting of one or more bolts.

5. Anchoring system according to any claims 1 to 3,

characterised in that the first connection means of each connector consists of one or more slits and/or cavities.

6. Anchoring system according to any claims 1 to 3, characterised in that the first connection means of each connector consists of one or more hooks and/or projections.

7. Anchoring system according to any claims 1 to 6, characterised in that each connector is arranged in a sliding manner inside the inner channel of the respective anchoring profile, in such a way that said connector can change position up to the moment of coupling between the second connection means of the attachment assembly and the first connection means of said connector.

8. Anchoring system according to any claims 1 to 7, characterised in that the attachment assembly comprises at least one adjustment element configured to adjust the mutual positioning between said attachment assembly and the anchoring profile.