In accordance with a first embodiment of the present invention, water overflow edge device for a swimming pool is provided. The water overflow edge device includes a channel consisting of a bottom wall, a rear wall and a front wall, wherein said front wall is made of a plurality of modular structural elements arranged in sequence and coupled together "end-to-end", the channel also being covered on top by a walking grid that allows water from the swimming pool to enter into said channel, the water overflow edge device being characterised in that each modular structural element consists of a first component with structural function, provided at the bottom with coupling means with the bottom wall of the channel and with the top of the vertical inner wall of the swimming pool, said structural component also being provided at one side with a first surface, which forms the front wall of the channel, and with a second substantially vertical surface, opposite the first surface and configured to support a second coating component which forms the entire exposed surface of the water overflow edge device and which has a finishing function. The coupling means of the first component with structural function consist of a plurality of male-female couplers, capable of being coupled together by interlocking and through gluing with adhesive materials along the upper edge of the swimming pool, so that the second coating component of each modular structural element is aligned with the vertical inner wall of said swimming pool, wherein between said male-female couplers there are corresponding clearances so as to allow channels to be laid with profiles having a broken line.

CLAIMS

1. Water overflow edge device for a swimming pool, comprising a channel consisting of a bottom wall, a rear wall and a front wall, wherein said front wall is made of a plurality of modular structural elements arranged in sequence and coupled together "end-to-end", the channel also being covered on top by a walking grid that allows water from the swimming pool to enter into said channel, the water overflow edge device being characterised in that each modular structural element consists of a first component with structural function, provided at the bottom with coupling means with the bottom wall of the channel and with the top of the vertical inner wall of the swimming pool, said structural component also being provided at one side with a first surface, which forms the front wall of the channel, and with a second substantially vertical surface, opposite the first surface and configured to support a second coating component which forms the entire exposed surface of the water overflow edge device and which has a finishing function, wherein the coupling means of the first component with structural function consist of a plurality of male-female couplers, capable of being coupled together by interlocking and through gluing with adhesive materials along the upper edge of the swimming pool, so that the second coating component of each modular structural element is aligned with the vertical inner wall of said swimming pool, wherein between said male-female couplers there are corresponding clearances so as to allow channels to be laid with profiles having a broken line.

2. Water overflow edge device according to claim 1,

characterised in that the first component with structural function is provided at the top, between the first surface and the second surface, both with a substantially horizontal support portion, designed to support the walking grid, and with a substantially convex coupling portion, designed to be shape-coupled with a corresponding concave portion of the second coating component.

3. Water overflow edge device according to claim 2, characterised in that the first component with structural function is made of a plastic material and in that the second coating component is made of a ceramic material.

4. Water overflow edge device according to any one of the claims from 1 to 3, characterised in that the first component with structural function is made in the form of a profile with an internally hollow continuous cross section.

5. Water overflow edge device according to claim 4, characterised in that the first component with structural function is internally provided with one or more reinforcing ribs, arranged longitudinally, and/or with one or more reinforcing dividers, arranged transversally and thus perpendicular to said reinforcing ribs.

6. Water overflow edge device according to claim 4 or 5, characterised in that the first surface of the first component with structural function is

inclined according to an angle of over 90° with respect to the bottom wall of the channel, so as to facilitate the outflow of water towards said bottom wall.

7. Water overflow edge device according to any one of the claims from 3 to 6, characterised in that on one of the transversal or "top" edges of each first component with structural function a protrusion is made that is configured to insert into a corresponding groove made on the opposite transversal or "top" edge of said first component with structural function, so as to ensure a stable coupling between the various components with structural function arranged in sequence.

8. Water overflow edge device according to any one of the claims from 1 to 7, characterised in that the first component with structural function is provided with a second surface finished with front grooves, as well as with dovetailed male-female couplers, so as to ensure a suitable stick of the adhesive materials.

9. Water overflow edge device according to any one of the claims from 3 to 8, characterised in that the second coating component is made with a shape in section like an inverted J, with a vertical front wall exposed towards the inside of the swimming pool and wherein said vertical front wall has said concave portion on top of it, said concave portion having a substantially C-shaped section.

10. Water overflow edge device according to claim 9, characterised in that the upper surface of said concave portion is configured to be substantially

aligned with the walking grid and is provided with a plurality of longitudinal grooves with a finger-grip function for the swimmer.

11. Water overflow edge device according to claim 9, characterised in that the upper surface of said concave portion is configured to extend upwards with respect to the plane defined by the walking grid, so that the projection forms a finger-hold for the swimmer.