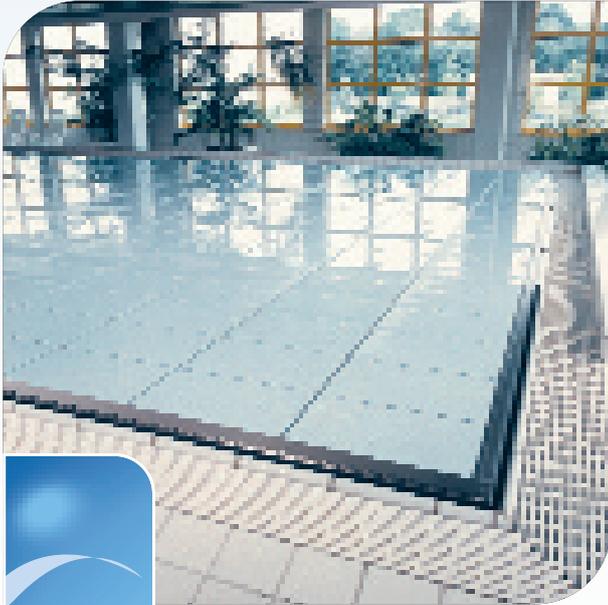


*Rehabilitation centre De Hoogstraat, Utrecht.**Rehabilitation Friesland, Beetsterzwaag.*

## Adjustable floor

### Indications

The EWAC adjustable floors for swimming pools have been specially developed for use in the rehabilitation and therapy sectors. The floors can be adjusted in height so that the depth of the water in the therapy pool can be varied to suit the chosen therapy and the individual needs of the client. In this way the best possible therapeutic basis can be created for an optimal contribution to the therapy.

The floor of the swimming pool can be adjusted to any level.

This is particularly useful for training lessons in the art of falling, because this adjustable system makes it possible to gradually increase the depth of the water according to the weight load.

In the type of swimming pools where the difference in the depth of the water is achieved by means of a slope in the floor of the pool, or by having separate sections with different depths, there are obviously several important disadvantages. For example, there is very little room for the therapeutic activities, which means the swimming pools have to be bigger. Apart from the fact that there is always the danger that the patient can accidentally move into the deeper area in these sort of swimming pools, on the financial side, a larger pool means higher costs. For the therapist there are also disadvantages, for example, finding just the right depth of water for the client to be able to keep his/her balance during some of the therapeutic exercises.

Furthermore, one of the most important advantages of the adjustable floor is that when the therapy sessions are finished the floor of the pool can be adjusted so that it safely covers the water to prevent anyone accidentally falling in. It then also covers the heated therapy water and helps to keep it warm, thus saving on the energy costs incurred by heating the water in the pool.

The EWAC adjustable floor can be fixed to any chosen level, from surface level to 170 cm below surface level, so that the depth of the water in the swimming pool can be adjusted to suit every age group.

With a built-in pool the entrance to the pool can be built on the same level as the floor of the pool when it is in the highest position. Patients on a stretcher on a trolley, or in a self-propelled wheelchair, then have easy access to the swimming pool.

To meet the demand for a great variety in the size of swimming pools EWAC has developed a construction system that enables almost every possible size to be built, from 4 m<sup>2</sup> to over 100 m<sup>2</sup>, simply by using the standard construction units.

EWAC also offers a choice of adjustable floors where the corners are rounded off, or have some other form, to give a decorative and architectonic effect.

## Product information

### EWAC supplies two types of adjustable floors:

1. The *hanging* floor, where the floor hangs from four cramp irons, which are fixed to the top of the walls of the swimming pool, and the floor is pulled upwards. The size of the pools can vary from 4 t/m 48 m<sup>2</sup>.
2. The *floating* floor, where the cramp irons are fixed to the base of the pool and the floor is pulled downwards. The size of the pools can vary from 48 t/m 100 m<sup>2</sup>.



The adjustable floors can all be supplied with various extra options, e.g. depth indicator and/or parallel bars. The hanging floors can also be supplied with a safety locking device, which locks the floor in position after it has been adjusted to a new level, thus complying with the most stringent safety requirements of, for example, the TUV.

The EWAC floating floor is a firm, moveable floor that is adjustable in height, and measures between 48 m<sup>2</sup> and 100 m<sup>2</sup>, and floats on the water. It can move freely up and down between the four walls of the pool.

Four stainless steel cables are connected from the adjustable floor to the base of the pool. The floor can then be lowered and held down under the water by means of these cables.

The floor consists of four main parts:

- water hydraulic system (using water from the mains)
- stainless steel frame and floating floor segments
- polyester tiles
- control panel with digital display showing water depth



*Nursing home Zandhove, Zwolle.*



*Project Rakovnic, Czech Republic.*

The EWAC hanging floor is a firm, moveable floor that is adjustable in height and measures between 4 m<sup>2</sup> and 48 m<sup>2</sup>. It can move freely up and down between the four walls of the pool.

Four stainless steel cables are connected from the adjustable floor to the top of the walls of the pool. The floor can then be raised and held up by means of these cables.

The floor consists of four main parts:

- water hydraulic system (using water from the mains)
- stainless steel frame
- floor surface of polyester tiles
- control panel, with a digital display for water depth as an extra option

## Description of the adjustable floors

The EWAC adjustable floor slides gently to any level. There is a pre-set minimum depth and maximum height to which the floor can be adjusted.

The maximum range of adjustment for the hanging floor is 1700 mm and 2000 mm for the floating floor.

The surface of the floor is covered with polyester, non-slip tiles, which are fitted to a frame. Each tile can be removed separately for inspection or for cleaning the pool area under the floor.

There are two nylon guide wheels on each side of the floor. These guide wheels move along the walls of the pool to keep the moving floor steady.

The hanging floor hangs on four stainless steel cables that are fixed to the top of the walls of the pool with wall anchors. The four stainless steel cables on the floating floor are fixed in the same way but then to the bottom of the pool.

The floor moves up and down by means of a water hydraulic system, which is fitted to the underside of the adjustable floor.

This hydraulic system consists of a cylinder and piston, guide rail, cable wheels, safety stop device etc. There are also cable wheels and wheel supports fixed to the underside of the floor.

A compression unit, which is situated in a compartment next to the pool, supplies the water pressure for the hydraulic unit. A pressure pipe from this compression unit is connected to a duct that is specially fitted through the wall of the pool. On the inside of the pool a special rubber high pressure hose that is resistant to chemicals connects the pressure pipe to the hydraulic unit.

On or in the wall round the pool there is a panel with the controls for raising or lowering the floor. It consists of two buttons, a key switch, and a power indicator light.

A depth indicator on the control panel and a large wall display come as standard accessories with the floating floors.

The installation of an adjustable floor must not interfere with the water circulation and quality of the water in the swimming pool. The construction and installation of the EWAC adjustable floors is specially designed to keep this interference to a minimum. The corners of the polyester tiles have ridges so that when they are fitted an opening of 6 mm is automatically created for the circulation of the water. Together with the open frame construction this prevents stagnant water collecting under the floor.

The tiles are 30 cm x 50 cm and are made of a special sort of polyester material. They are light blue in colour with a rough surface to prevent slipping.

The floor tiles are connected to the frame with stainless steel clips with springs.

## Specifications and technical data

Frame:	stainless steel AISI 316
Floor surface:	consists of removable light blue polyester tiles
Size of tiles:	30 cm x 50 cm
Maximum floor surface:	100 m <sup>2</sup>
Minimum length of the floor:	5 m
Height adjustment range:	0 – 168 cm maximum for hanging floors
Height adjustment range:	0 – 200 cm maximum for floating floors
Construction height:	depending on the type of floor and surface (35 cm – 65 cm)
Maximum static load:	200 kg/m <sup>2</sup>
Height adjustment method:	water hydraulic system
The hydraulic system works with water from the mains to prevent pollution of the water in the pool	
Remote control voltage:	12 V
Voltage and frequency:	3 x 230/400 V – 50 Hz
Power input:	0,55 - 1,6 KVA, depending on the size of the floor

## Ordering data

### Removable parallel bars made of stainless steel for the adjustable floors

#### Dimensions:

22-0003-003	Parallel bars, equipped with 2 base plates, L = 3 m
22-0011-003	Parallel bars, equipped with 3 base plates, L = 4 m
22-0013-003	Parallel bars, equipped with 3 base plates, L = 5 m
22-0015-003	Parallel bars, equipped with 3 base plates, L = 6 m
22-0003-003	Height & width adjustable parallel bars with 2 base plates, L = 3 m
22-0011-003	Height & width adjustable parallel bars with 3 base plates, L = 4 m
22-0013-003	Height & width adjustable parallel bars with 3 base plates, L = 5 m
22-0015-003	Height & width adjustable parallel bars with 3 base plates, L = 6 m



Project Barcelona, Spain.