

Castiglione delle Stiviere, 05/04/2016

QUOTATION N. 2016 – 056

CONSTRUCTION OF POOLS WITH MYRTHA TECHNOLOGY:

Myrtha Headwall / Classic

50 x 25 x 2 m

Project name: ALFA SPORT CLUB KISPES



INDEX

The Company	page 2
Why Myrtha ?	page 3
Offer specification	page 5
Price summary	page 10
Commercial conditions	page 11

THE COMPANY

A&T Europe Group, founded 1961 in Castiglione delle Stiviere (Mantova, Italy) quickly became a leader in the international swimming pool market. Thanks to continuous research and development, the Company has achieved numerous technological breakthroughs in the pool market presenting the most advanced technologies and obtaining reliable, exclusive patents.

A&T Europe has built swimming pools in over 70 countries around the world: from Iceland to Arabia, from Brazil to Japan, and from the United States to Australia; in extreme climates with extraordinary and challenging environmental conditions.

Its exclusive technologies are selected for International competition events, including the Olympic Games and World Swimming Championships. With registered capital of € 3,096,000.00, an operational area of 60,000 m², 250 direct employees and more than 300 distributors in Italy and abroad, A&T Europe currently designs, produces and installs about 1.500 swimming pools a year, including more than 300 public pools.

The extraordinary success achieved today by A&T Europe throughout the world is the direct result of a



broad range of its experience and activities characterized by a 360-degree perspective of the market. The company now designs and manufactures swimming pools for a wide range of sectors, including private pools, public projects, waterparks and pools for competitions and special events.

WHY MYRTHA?

Myrtha technology is used today in almost every type of public pool project. There are practically no limits in dimension, shape and design. Thanks to its light and self-supporting construction, it is possible to build swimming pools in almost every particular situation, such as in high rise buildings, as a temporary or permanent construction, in-ground and self-standing, different types of extreme climates and even in seismic areas. The most important advantages of the Myrtha technology are:

- **Any size, any shape, any depth**

The Myrtha® technology is adaptable to fit every type of pool project. Myrtha® is suitable for both precise competitive situations as well as the most elaborate freeform pool design.

- **One company responsible for the total package**

Myrtha Pools boasts an advanced technical department that allows for direct transmission of the manufacturing drawings to production of the pool components; a Research & Development team that continually strives to improve on the Company's industry leading technology; installation personnel trained at the Company's Pool Academy; and one Company is responsible for the complete pool package. All of factors ensure that customers will have one of the best products on the market today.

- **Fast installation & less mistakes**

Myrtha pools can be built in a very short time, thanks to their pre-engineered design. The components are manufactured according to ISO 9001 standards by automated machines and shipped directly to the building site. This facilitates a timely installation process that does not require the use of heavy equipment and significantly reduces the risk of assembly mistakes on the construction site.

- **Fixed costs**

Building a Myrtha pool means fixed purchasing investments and predictable through life costs. A shorter installation time compared to traditional concrete construction significantly reduces the risk of cost overruns. Also, unlike traditional constructions, Myrtha pools do not require a significant maintenance schedule.

- **Millimetric precision**

A comprehensive design developed with 3D CAD design software allows for a highly detailed review of the finished pool structure and better control of the overall material completeness. The tri-dimensional design software aides in the customized manufacturing process and automatically generates a complete, error free material list. Myrtha pools millimetric precision exceeds F.I.N.A. regulations and competition facility rules.

- **Low maintenance, easy to clean and care for**

Unlike traditional constructions, Myrtha Pools® do not require a significant maintenance schedule. Sturdy, built to last, and not subject to dimensional variations, a Myrtha® structure is not susceptible to cracking, or structural deterioration and is not affected by the aggressive action of chlorinated pool water.

- **Long life and extensive guarantee**

Swimming pools built using Myrtha® Technology have virtually an unlimited lifespan, due to the inherent structural integrity and the proven characteristics of the materials employed. The advanced technological features of the modular system allow Myrtha® to confidently provide one of the best warranties worldwide.

- **High-level finishes**

Myrtha® offers a wide range of finish details to suit the most discerning architect or client. All of the

materials used are of the highest quality.

- **Suitable for the most difficult situations**

Thanks to the advantages of a light, sturdy and easily-adaptable structure, it is possible to build Myrtha pools in the most difficult of environments, including above ground in high rise buildings; in small inaccessible spaces; on soils with low load bearing capacity or in areas with high water tables; in seismic zones and in the widest range of climatic and geological conditions.

- **Environmental respect**

With most Governments recommending the reduction of CO2 emissions, Myrtha Pools commissioned Australian engineering company ACOR Consultant to calculate the energy used in building a Myrtha pool. The Carbon footprint of Myrtha (the quantity of CO2) is significantly lower by 50% compared to a traditional pool made with concrete and tiles: with the energy saved building a 50m pool, Myrtha could provide heat to a 100sqm apartment for at least 45 years!

- **Customers satisfaction**

Myrtha Pools can boast many satisfied customers, including the Organizing Committees for the major sporting events in which Myrtha Technology has been used.

IMPORTANT NOTE:

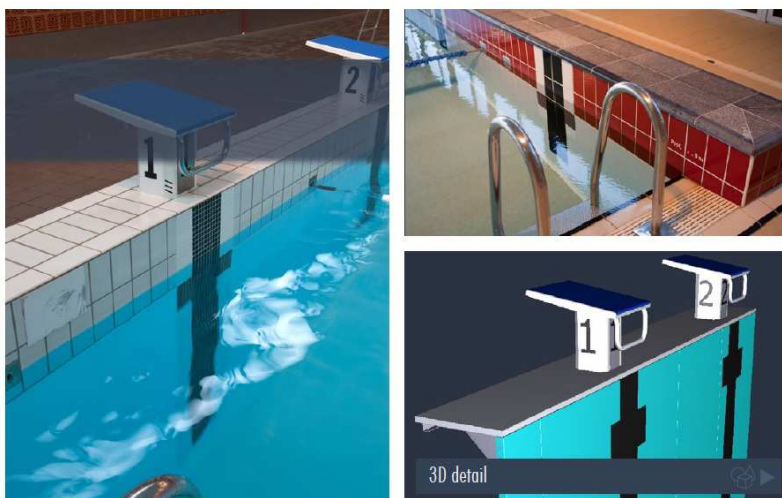
All images shown in the present quotation are purely indicative. The delivered products may vary due to technical reasons or product updates and/or improvements.

1 POOL TANK MAIN STRUCTURE

1 1 MYRTHA® HEADWALL (CONCRETE FINISHING)

Headwall construction, The Myrtha panel is 300 mm higher than the water level, to host competition touch pads according to FINA norms. Designed for fixing to concrete pool deck construction (excluded from supply). Upper frame 100 mm wide, in Myrtha stainless steel. Link plate described in dedicated position.

To be completed by a concrete deck-step (excluded from supply) built by third. Finishing on horizontal plate not included. Starting blocks and Ceramic tiles shown in pictures not included.



Materials:

Element	Material	Dimensions	Reference Norm
base frame	AISI 470 / EN 1.4613	T = 2 mm	Eurocode 3 EN ISO 9227
reinforcement profiles	AISI 470 / EN 1.4613	T = 2 - 5 mm	Eurocode 3 EN ISO 9227
Wall panels	AISI 441 / EN 1.4509 & PVC-P	T = 2,0 mm + 0,5 mm	Eurocode 3 EN 15836; KSW

Colours:

Wall panels: pale blue, white

Geometry:

Pool shape: straight
Set up: in-ground
Water depth: 2 m

Myrtha® Headwall according to above specification:

straight construction, height 2,30 m

50 m

1 2 MYRTHA® CLASSIC

MYRTHA pool wall construction, with base frame, wall panels, overflow gutter and reinforcement profiles. Wall panels and overflow gutter made of Stainless steel / hard PVC composite material specified below. The hard PVC membrane is laminated by hot polymerisation, forming a permanently bonded stainless steel - hard PVC composite panel. Back side of wall panels covered by a transparent LDPE sheet (alternatively with an anticorrosion paint) for additional protection. All other structural components made of highest corrosion resistance stainless steel specified below.

Myrtha CLASSIC overflow gutter include a special PVC profile at water level. PVC profile, just snap-in, adjustable vertically should it be necessary. Overflow gutter grid made of PP, sloping by 5° and complying with C-24° antislip class. It forms a hand-grip according to EN 13451.



Materials:

Element	Material	Dimensions	Reference Norm
base frame	AISI 470 / EN 1.4613	T = 2 mm	Eurocode 3 EN ISO 9227
reinforcement profiles	AISI 470 / EN 1.4613	T = 2 - 5 mm	Eurocode 3 EN ISO 9227
Wall panels	AISI 441 / EN 1.4509 & PVC-P	T = 2,0 mm + 0,5 mm	Eurocode 3 EN 15836; KSW
Overflow gutter	AISI 441 / EN 1.4509 & PVC-P	T = 1,5 mm + 0,5 mm	Eurocode 3 EN 15836; KSW
Gutter edge	PVC profile	W = 62 mm	DIN 19643 EN 13451
Gutter grid	Polypropylene (PP)	L = 333 mm W = 249 mm	EN 13451

Colours:

Wall panels:	pale blue, white
Gutter panels:	pale blue
Gutter grid:	white, ivory, black

Geometry:

Pool shape:	straight
Set up:	in-ground
Water depth:	2 m

Myrtha® Classic according to above specification:

straight construction, height 2 m

100 m

1 3 **RECESSED FOOTREST**

Special safety step, integrated into the pool wall construction. Footrest area covered by an anti-slip PVC membrane stripe of contrasting colour, welded during assembly on site.

The safety step is mandatory, if required by local safety rules. In any case, if competition pool is destined for public use, it is highly recommended.

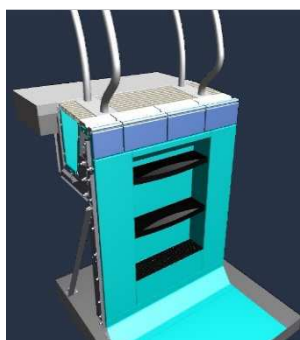


Wall integrated safety step, at a depth of 1,2 m

150 m

1 4 **MYRTHA RECESSED TREADS STAIR**

Special stair, obtained by integrating the steps into the Myrtha wall panel construction, without protruding into the external swimming lanes. Steps made of black co-polymer, stepping surface with anti-slip surface according to international safety rules. Each stair includes two stainless steel handrails of different height, anchored inside the Myrtha overflow gutter.



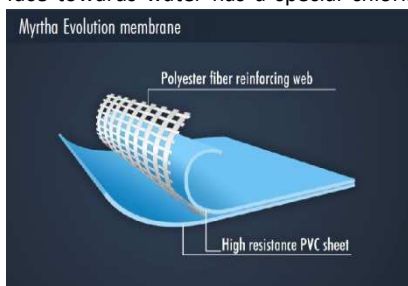
Stairs depth: 1,20 m.

Myrtha recessed treads stair

6 pc

1 5 **REINFORCED PVC MEMBRANE TYPE "MYRTHA EVOLUTION"**

With "no elongation" reinforcing mesh. Obtained by calendaring at hot temperature two PVC membranes with a "no elongation" reinforcing mesh. The face towards water has a special chlorine resistant formulation and receives a transparent acrylic paint for extra protection. Thickness: 1.5 mm. Supplied in 165 cm and 205 cm wide rolls, assembled by hot temperature welding on the construction site. A fluid PVC joint finishes each welding seam.



Colour of PVC membrane: light blue, white, black

Type of PVC membrane: flat (no anti-slip)

"MYRTHA EVOLUTION" type PVC membrane (pool floor)

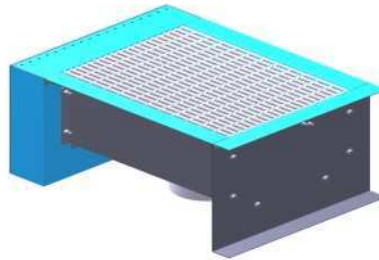
1250 m²

2

POOL HYDRAULICS

2 1 MYRTHA BOTTOM DRAIN

Bottom drain composed of Myrtha stainless steel panels with PVC laminated on the inner face. Lips to weld the floor membrane on, without need of a flange. Includes pre-welded PVC membrane on horizontal lip for safe and watertight membrane connection on site. Grid size, openings and drain depth (depending on drain diameter) complying with international safety norms.



Drain pipe diameter: 225 mm

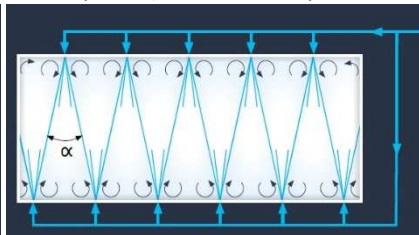
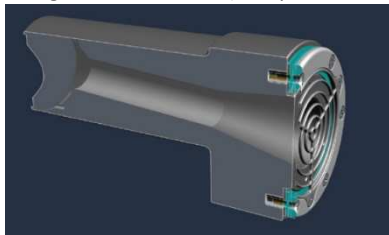
Hydrostatic relief valve: not included

Myrtha bottom drain

2 pc

2 2 "STRAHLENTURBULENZ" TYPE WALL INLETS

Designed with CFD (Computational Fluid Dynamic) calculation system, the



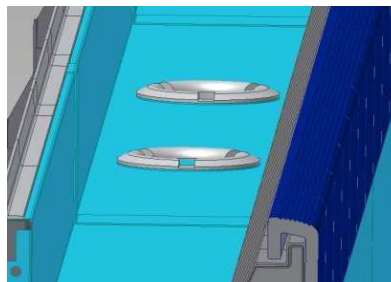
Strahlenturbulenz (STZ) system works only with wall inlets, avoiding all the problems caused by floor inlets. The STZ system fully complies with the colour test required by EN 15288-2 without creating any disturbance to the swimmers. Made of solid PVC and AISI 316 L front grid. Supplied with a threaded or glued (upon request) 3" connection to inlet piping network of filtration plant. Includes scheme for correct positioning of all wall inlets and necessary Myrtha panel perforation.

"STRAHLENTURBULENZ" WALL INLETS

28 pc

2 3 "TWIN TYPE" OVERFLOW GUTTER DRAINS

Set of two vertical overflow gutter drains for discharge of overflowing water into the return piping network (excluded from this position) of filtration plant. Includes two solid PVC sockets for a 90 mm diameter pipe connection. Capacity 30 m³/h for each set of twin drains.



Twin type gutter drains

32 sets

3 COMPETITION EQUIPMENT

3 1 WALL TARGETS - PAINT

Wall target showing the centreline of swimming lanes on pool wall. Includes:

- black liquid PVC
- kit to paint the stripe
- tetrahydrofuran
- ethyl acetate
- paper roll

Dimensions and positioning according to FINA rules.

factory preinstalled

Wall targets - paint

20 pc

3 2 FLOOR LANE MARKING - PAINTED BLACK STRIPE

Lane markings showing the centreline of swimming lanes on pool floor. Includes:

- black liquid PVC
- kit to paint the stripe
- tetrahydrofuran
- ethyl acetate
- paper roll



Dimensions and positioning according to FINA rules.

Lane length:

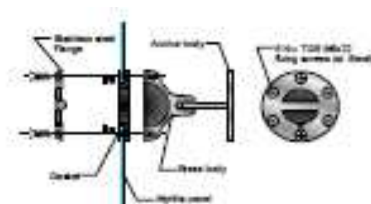
50 m

Lane markings

10 lanes

3 3 FLOATING ROPE ANCHOR

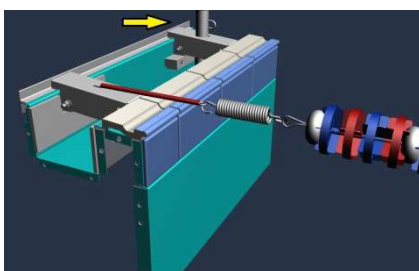
For vertical wall (steel perforation included). Material: stainless steel AISI 316



Floating rope anchor

18 pc

3 4 MULTIFUNCTIONAL ANCHOR SOCKET – GUTTER INSTALLED



Anchor type: pole

Stainless steel multifunctional anchoring socket installed directly inside the overflow gutter.
Pipe diameter 45 mm.

Multifunctional anchor socket Gutter installed

8 pc

3 5 POLES – GUTTER INSTALLED



Pair of two 45 mm diameter tubular stainless steel poles, height 1,92 m, suitable for anchoring onto gutter installed multifunctional anchor socket.

Pole type: false start (2 pairs) and backstroke (2 pairs)

Gutter installed poles

4 pairs

PRICE SUMMARY

- 1 POOL TANK MAIN STRUCTURE
- 2 POOL TANK HYDRAULICS
- 3 COMPETITION EQUIPMENT
- 4 SHIPMENT
- 5 INSTALLATION

TOTAL

510.000,00 €

COMMERCIAL CONDITIONS

SPECIFIED SCOPE OF SUPPLY INCLUDES

- supply of materials as described above
- transport of material to job site
- Installation of supplied material on site.
- Project development with indication of all civil works to be done by third parties on site, before installation

SUPPLIES/SERVICES EXCLUDED FROM SCOPE OF SUPPLY

- Import and custom duties of any type
- On site unloading of material from trucks and movement of the same to a safe storage or installation area.
- Supply of onsite services, moving/lifting devices for material, including electric power and net water during the entire duration of the construction.
- Provision of a safe storing area for materials and custody of material during the period between arrival of material on site and beginning of installation.
- Provision of a dry and lockable room for storage installation tools and generally materials that cannot be left outdoor
- providing net water supply to water treatment system
- Providing connection piping (gravity) from max. level outlet of balance tank
- Providing connection of heat exchanger to heating water supply and discharge
- Supply of electricity, water, drainage on the construction site.
- Connection of electric panel supplied by A&T and the different electric equipment supplied to electric power supply
- Concrete works, including assistance to the installation of A&T Europe equipment.
- Connect of filters to a sewage line, for emptying pool and backwashing filters.
- Technical room has to be drained and aerated.
- The customer is responsible for obtaining from the Local Authorities all the documents and permits needed for operating the pool.
- The customer is responsible for the organisation of the installation site and the compliance to the norms on safety, environment protection, etc.
- The customer has to instruct our technicians on any specific norm or code he likes our technicians to comply.

SALES CONDITIONS

Executive project supply:	45 days from order confirmation
Materials supply (FCA):	60 days from executive project approval
Installation:	must be integrated in a works schedule

PAYMENTS

To be agree

GUARANTEES

To be agree

VALIDITY OF QUOTATION

30/06/2016