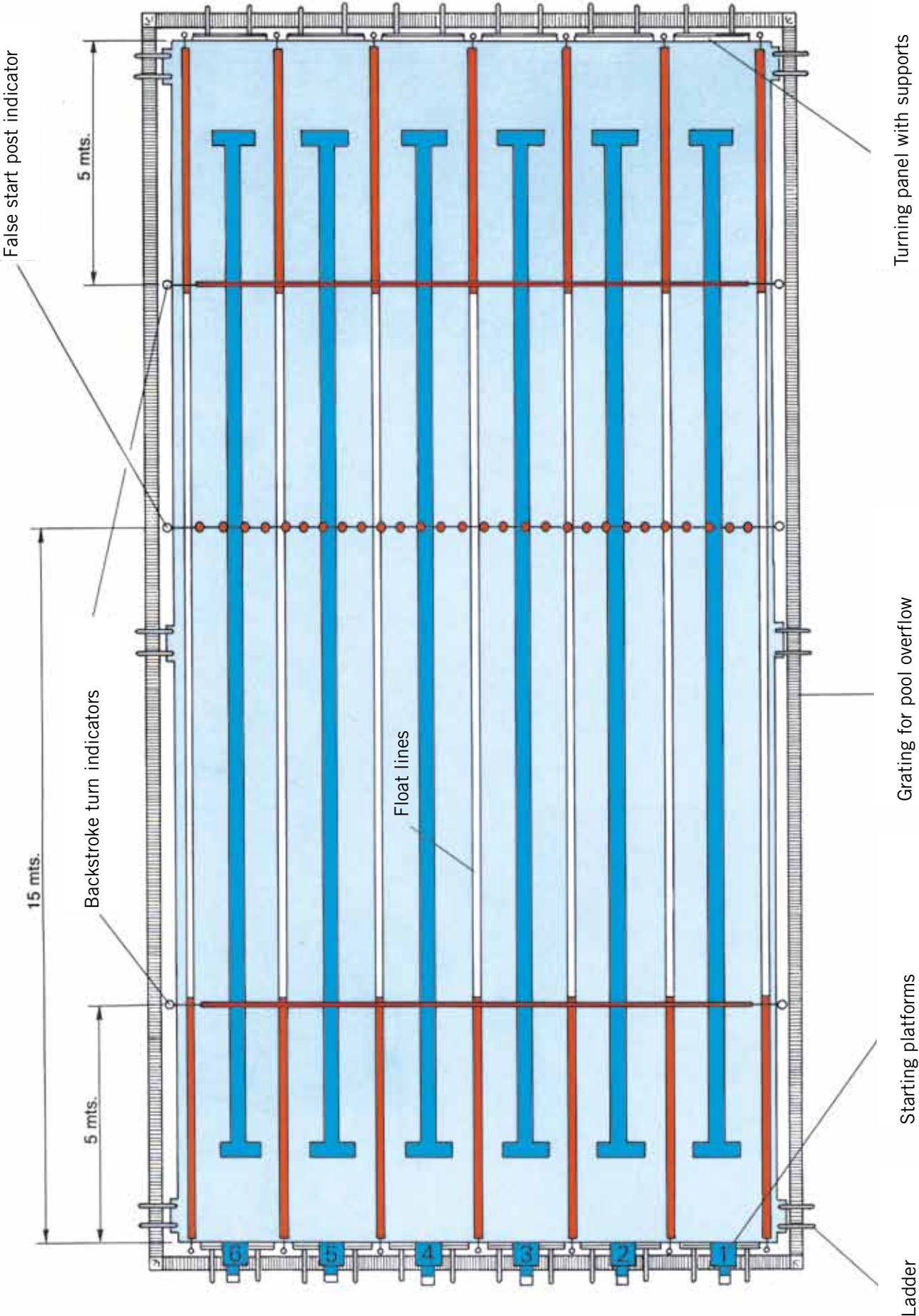


COMPETITION POOL EQUIPMENT



- 411 • Starting blocks for competition pools
- 414 • Lane ropes
- 418 • Floats
- 420 • Lane rope storage equipment
- 421 • Lane rope accessories
- 423 • Indicators
- 424 • Turning panels
- 425 • Anchoring sockets
- 426 • Movable wall

LOCATION OF THE VARIOUS EQUIPMENT USED IN COMPETITION POOLS



STARTING BLOCKS FOR COMPETITION POOLS



BCN03 Starting blocks

The BCN03 Starting block, developed and patented by AstralPool for the FINA Swimming World Championships held in Barcelona in 2003, introduces two innovations:

- allows the swimmer to adjust the angle of the block* manually. They can choose the angle most suitable from the available 0°, 3°, 6° and 10°.

* The regulations of the International Swimming Federation (FINA) (FR2.7) allow an angle between 0 and 10° on the starting block. So far, all the starting blocks available in the market have consisted of a fixed unadjustable platform.

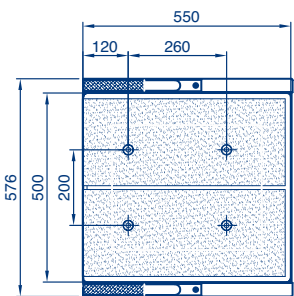
- side grip bars.

The starting block is manufactured using AISI-316 Stainless Steel. The standard starting platform can be dismantled to enable assembly of the Omega electronic timing system. It can also be adapted to other timing systems under request. The platform is 550 mm long x 500 mm wide, with a polished finish, and 437 mm high. Ideal for installation in a swimming pool with side walls. Anchoring system for concrete is also included.

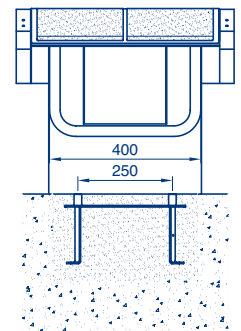
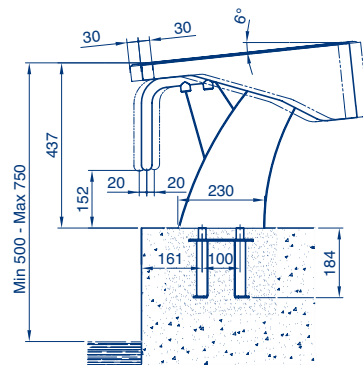
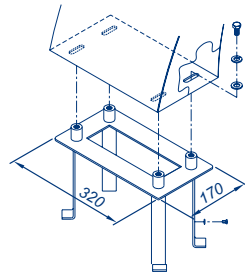


	Code	Standard Packing	Standard Weight	Standard Volume m ³
BCN03 Block manual adjustment and fixed side handles	28761	1	48.8	0.237
Fixed BCN03 Eco podium without side handles	28760	1	40.4	0.237

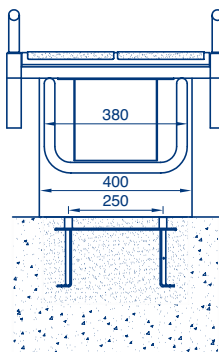
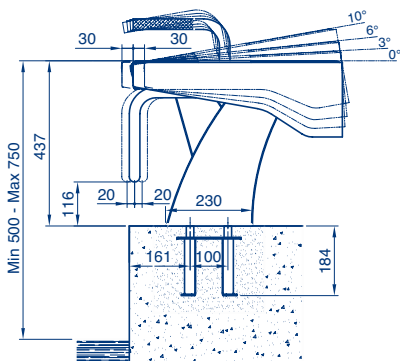
Note: Eco versions are fixed at 6°



PLANT VIEW
(Codes 28761 and 28760)



28760



28761

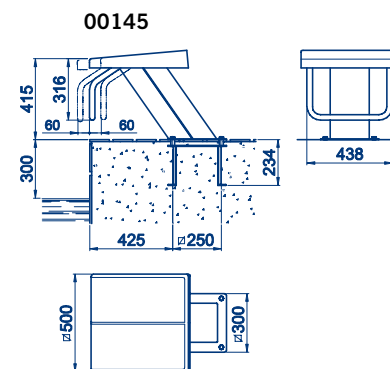
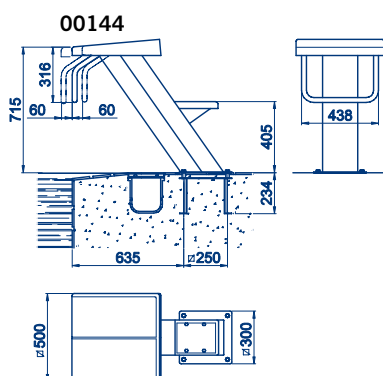
STARTING BLOCKS FOR COMPETITION POOLS



Starting blocks

Base in S.S. AISI-316. Adjustable platform in polyester & fibreglass with non-slip finish 500 mm x 500 mm. Number sequence not included. Anchoring fixtures included in the supply.

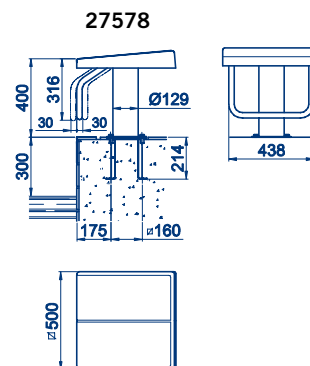
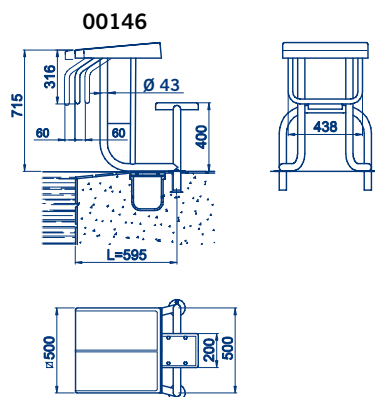
	Code	Standard Packing	Standard Weight	Standard Volume m ³
POLISHED FINISH: Height 700 mm	00144	1	32.0	0.36
Height 400 mm	00145	1	25.3	0.18
IN WHITE EPOXY PAINT: Height 400 mm	19957	1	25.3	0.18



Starting blocks

Made in S.S. AISI-304. Platform in Polyester and fibreglass with non-slip finish 500 mm x 500 mm. Number sequence not included.

	Code	Standard Packing	Standard Weight	Standard Volume m ³
POLISHED FINISH: Height 700 mm	00146	1	25.0	0.48
Height 400 mm	27578	1	18.0	0.11
IN WHITE EPOXY PAINT: Height 700 mm	19958	1	25.0	0.48



Note: The 00146 platform can be manufactured, made to order, for adapting it to overflow level. In this case the distance L must be provided.

Codes 00146 and 19958: For fixing with anchoring fixtures 00143, not included in the supply.
Code 27578: Embedding fixtures included in the supply.

HEADWALLS FOR COMPETITION POOLS

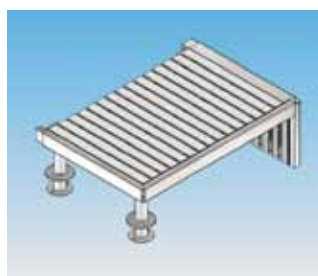
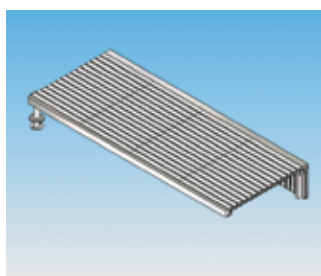
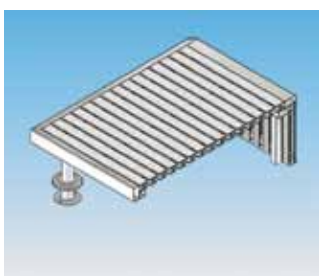


Headwall for podiums

AstralPool has created a headwall that allows starting blocks to be attached. This addition extends our range of products for competition. The item consists of an AISI-304 Stainless Steel structure and plastic grating. The platform can also be used as a turning panel and includes anchors for float lines.



	Code	Standard Packing	Standard Weight	Standard Volume m³
Headwall, lane width 2 m	34213	1	-	-
Headwall, lane width 2.5 m	34214	1	-	-
Headwall, right corner	34215	1	-	-
Headwall, left corner	34216	1	-	-



Starting blocks numbers

4 units of each supplied.

	Code	Standard Packing	Standard Weight	Standard Volume m³
For starting blocks BCN03 from 1 to 6	34200	1	0.1	0.001
For starting blocks BCN03 from 1 to 10	34201	1	0.1	0.001



LANE ROPES



BCN03 Lane rope

Developed and patented by AstralPool for the 2003 Swimming World Championships, the BCN03 Lane rope model is a significant technological breakthrough in competition swimming pools as it obtains maximum absorption of the waves created by swimmers, helping the water surface to be as flat as possible.

Biomechanical tests results carried out by the Applied Hydrodynamics Institute (INHA) in July 2003:

- the BCN03 lane ropes reduce waves inside the lanes by 80%. As a result, the wave caused by a swimmer when swimming is practically absorbed, without causing noticeable reflection effects.
- the new floats absorb up to 50% more waves than the conventional ones. Each lane of the swimming pool is least affected by the adjacent lane.

Operation:

Each float has an interior mechanism consisting of 24 turbines distributed on six shafts. The wave of water makes the turbines turn, converting the kinetic energy into mechanical energy, which is then dissipated by friction, thus preventing it from continuing into the next lane. Each turbine can turn freely on its axis and the entire float unit can also rotate around the cable.

Technical features:

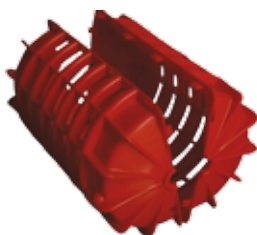
The outer shell is manufactured in two technical plastic parts, built to prevent swimmers hurting themselves on colliding with it. The inner parts are made of polythene and polypropylene. Colours available: white, blue, red and green.

The same float unit is available in an Eco version, which has the same shell appearance and the same colours but without the inner turbine mechanism.

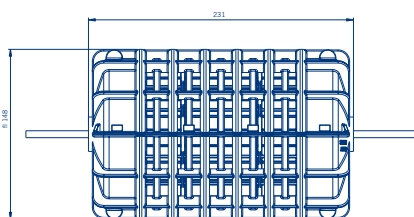
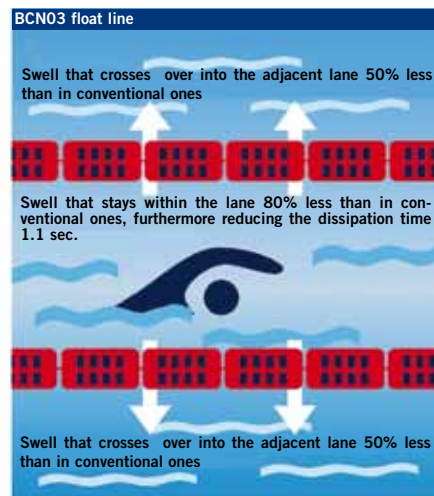
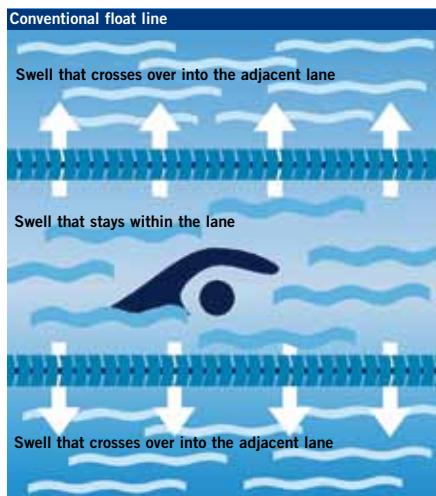
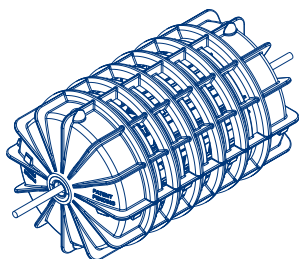
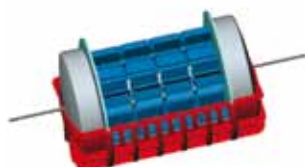
The lane ropes are supplied with float units and Stainless Steel 6 mm cable (code 28808) and hook (code 00208).



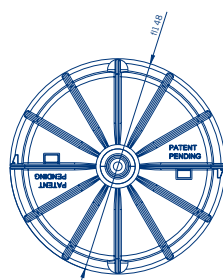
Model Competición



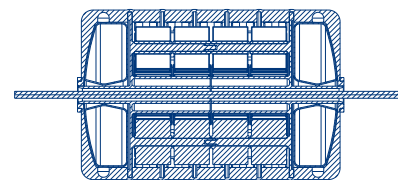
Model Eco



Side view



Front view



Section

LANE ROPES



BCN03 Competition lane rope model

The lane ropes are supplied with float units, Stainless Steel 6 mm cable (28808) and hook (00207). Floats with inner turbine mechanism.

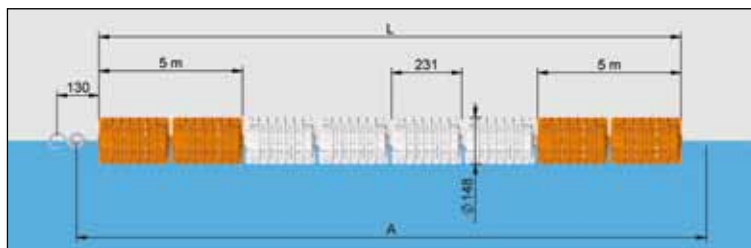
	Code	Standard Packing	Standard Weight	Standard Volume m ³
25 m length	28802	1	-	-
50 m length	28804	1	-	-



BCN03 Eco lane rope model

The lane ropes are supplied with float units, Stainless Steel 6 mm cable (28808) and hook (00207). Floats without inner turbine mechanism.

	Code	Standard Packing	Standard Weight	Standard Volume m ³
25 m length	28803	1	-	-
50 m length	28805	1	-	-



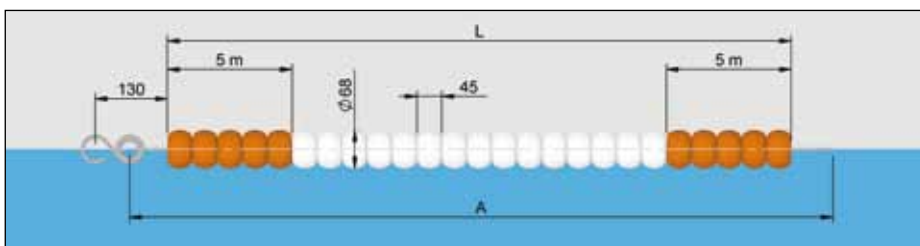
Code	L (m)	A (m) cable	Nr. of blue BCN03 floats	Nr. of red BCN03 floats
28802	25	30	44	64
28804	50	60	44	172
28803	25	30	44	64
28805	50	60	44	172

Other colours available on request



Rome model

	Code	Standard Packing	Standard Weight	Standard Volume m ³
25 m length	00181	1	9.0	0.200
50 m length	00183	1	16.0	0.620



Code	L (m)	A (m) cable	Nr. of orange Rome floats	Nr. of white Rome floats
00181	25	27	232	318
00183	50	52	232	868

The lane ropes are supplied with floats, polyester cord (00210) and hook (00207).



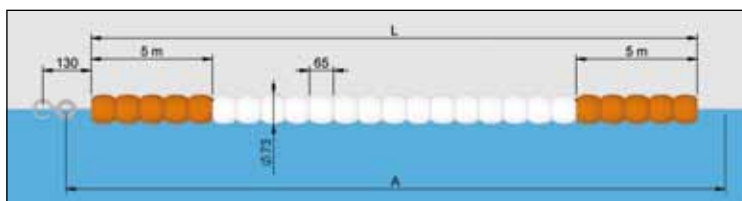
LANE ROPES



92 model

25 m length
50 m length

Code	Standard Packing	Standard Weight	Standard Volume m ³
00184	1	9.0	0.200
00186	1	16.0	0.620



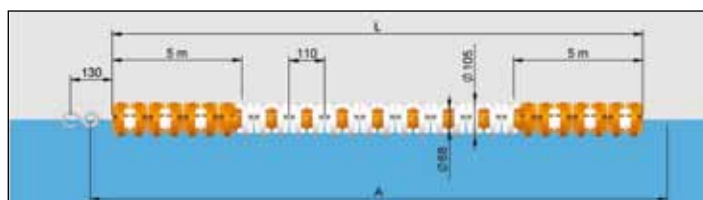
Code	L (m)	A (m) cable	Nr. of orange 92 floats	Nr. of white 92 floats
00184	25	27	152	229
00186	50	52	152	612



Moscow model

25 m length
50 m length

Code	Standard Packing	Standard Weight	Standard Volume m ³
00190	1	9.0	0.200
00192	1	16.0	0.620



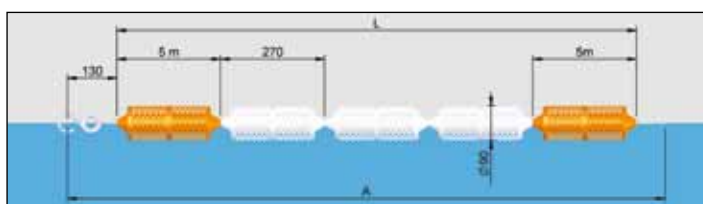
Code	L (m)	A (m) cuerda	Nr. of orange Moscow floats	Nr. of orange Rome floats	Nr. of white Moscow floats	Nr. of white Rome floats
00190	25	27	192	96	286	143
00192	50	52	192	96	756	378



Montreal model

25 m length
50 m length

Code	Standard Packing	Standard Weight	Standard Volume m ³
00193	1	19.0	0.340
00195	1	39.0	0.680



Code	L (m)	A (m) cable	Nr. of orange Montreal floats	Nr. of white Montreal floats
00193	25	27	38	55
00195	50	52	38	149

NOTE: It is possible to supply any length, colour combination and rope material under request.

LANE ROPES

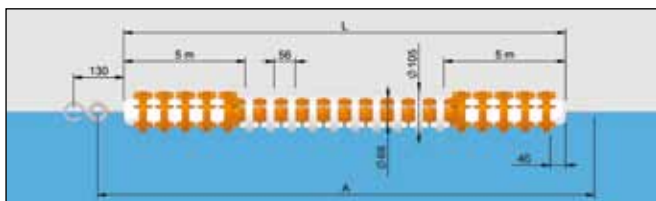
The lane ropes are supplied with floats, polyester cord (00210) and hook (00207).



Seoul model

25 m length
50 m length

Code	Standard Packing	Standard Weight	Standard Volume m ³
00196	1	28.0	0.340
00198	1	50.0	0.620



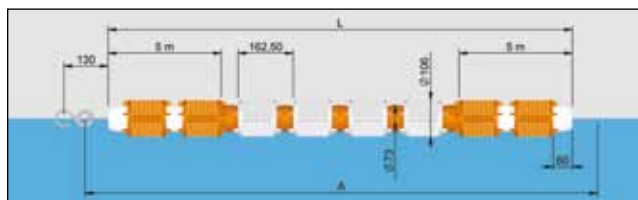
Code	L (m)	A (m) cable	Nr. of orange Seoul floats	Nr. of white Rome floats	Nr. of white Seoul floats	Nr. of orange Rome floats
00196	25	27	178	178	268	269
00198	50	52	178	178	714	715



Barcelona model

25 m length
50 m length

Code	Standard Packing	Standard Weight	Standard Volume m ³
00199	1	40.0	0.340
00201	1	78.0	0.680



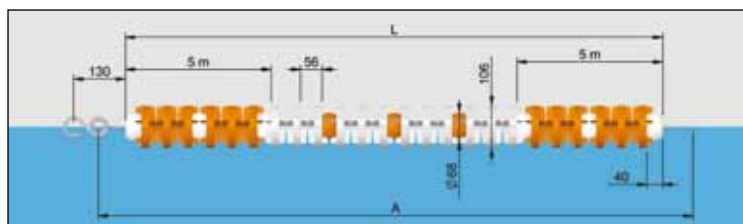
Code	L (m)	A (m) cable	Nr. of orange Barcelona floats	Nr. of white 92 floats	Nr. of white Barcelona floats	Nr. of orange 92 floats
00199	25	27	60	62	91	90
00201	50	52	60	62	242	241



France model

25 m length
50 m length

Code	Standard Packing	Standard Weight	Standard Volume m ³
00202	1	40.0	0.340
00204	1	78.0	0.680



Code	L (m)	A (m) cable	Nr. of orange France floats	Nr. of white Moscow floats	Nr. of orange Rome floats	Nr. of white France floats	Nr. of orange Moscow floats	Nr. of white Rome floats
00202	25	27	62	182	91	92	120	60
00204	50	52	62	486	243	243	120	60



NOTE: It is possible to supply any length, colour combination and rope material under request.

FLOATS



BCN03 model



Supplied with inner turbine mechanism.

	Code	Standard Packing	Standard Weight	Standard Volume m ³
Colour white	28204	-	-	-
green	28425	-	-	-
blue	28423	-	-	-
red	28424	-	-	-



BCN03 Eco model



Supplied without inner turbine mechanism.

	Code	Standard Packing	Standard Weight	Standard Volume m ³
Colour white	28798	-	-	-
green	28801	-	-	-
blue	28799	-	-	-
red	28800	-	-	-



Rome model



	Code	Standard Packing	Standard Weight	Standard Volume m ³
Colour white	00149	500	7.0	0.110
orange	00150	500	7.0	0.110
blue	00151	500	7.0	0.110
red	00152	500	7.0	0.110



92 model



	Code	Standard Packing	Standard Weight	Standard Volume m ³
Colour white	00153	140	3.0	0.070
orange	00154	140	3.0	0.070
blue	00155	140	3.0	0.070
red	00156	140	3.0	0.070



Moscow model



	Code	Standard Packing	Standard Weight	Standard Volume m ³
Colour white	00161	150	7.0	0.070
orange	00162	150	7.0	0.070
blue	00163	150	7.0	0.070
red	00164	150	7.0	0.070

FLOATS

Montreal model

	Code	Standard Packing	Standard Weight	Standard Volume m ³
Colour white	00165	28	7.0	0.070
orange	00166	28	7.0	0.070
blue	00167	28	7.0	0.070
red	00168	28	7.0	0.070


Seoul model

	Code	Standard Packing	Standard Weight	Standard Volume m ³
Colour white	00169	200	8.0	0.070
orange	00170	200	8.0	0.070
blue	00171	200	8.0	0.070
red	00172	200	8.0	0.070


Barcelona model

	Code	Standard Packing	Standard Weight	Standard Volume m ³
Colour white	00173	45	10.0	0.070
orange	00174	45	10.0	0.070
blue	00175	45	10.0	0.070
red	00176	45	10.0	0.070


France model

	Code	Standard Packing	Standard Weight	Standard Volume m ³
Colour white	00177	100	5.5	0.070
orange	00178	100	5.5	0.070
blue	00179	100	5.5	0.070
red	00180	100	5.5	0.070



LANE ROPE STORAGE EQUIPMENT

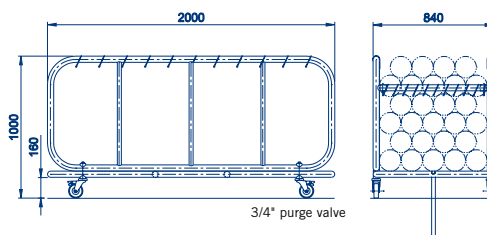


BCN03 Lane rope storage basket



A new trolley designed to transport and store the BCN03 Lane ropes after use in the swimming pool. The BCN03 lane rope storage basket is manufactured of AISI-316 Stainless Steel and includes a PVC bag for collecting excess water from the float lines. Due to the bag's bottom outlets, it is emptied in a controlled manner with no water spillage. The trolley has four castor wheels for maximum mobility. Two of these fitted with brakes. It can store a lane rope up to 50 m long (or 2 of 25) and can be used for all lane rope models.

Code	Standard Packing	Standard Weight	Standard Volume m ³
28623	1	55.0	0.389



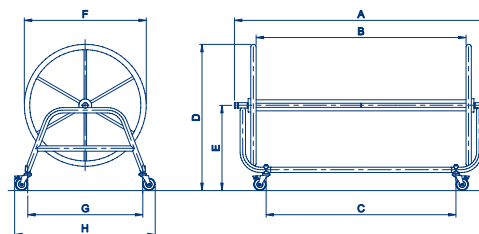
Lane rope roller



Made in Stainless Steel AISI-304, fitted with a large wheel for operation. It is mounted on 4 castor wheels for easy handling. Two of these are fitted with brakes.

Width 1.2 m
Width 1.8 m

Code	Standard Packing	Standard Weight	Standard Volume m ³
27481	1	36.8	0.50
20762	1	46.3	0.54



NUMBER OF LANE ROPE COLLECTED

Model	1.2 m			1.8 m		
	25 m	33 m	50 m	25 m	33 m	50 m
ROME	8	6	4	12	9	6
92	8	6	4	12	9	6
MOSCOW	4	2	2	6	3	3
MONTREAL	4	4	2	6	6	3
SEOUL	4	2	2	6	3	3
BARCELONA	4	4	2	6	6	3
FRANCE	4	4	2	6	6	3

Code	A	B	C	D	E	F	G	H
27481	1484	1135	974	1175	685	980	924	1130
20762	2036	1687	1526					

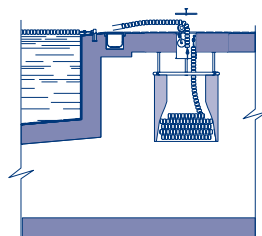
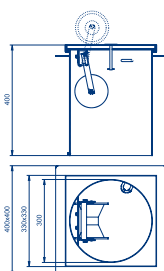


Under deck lane rope storage system



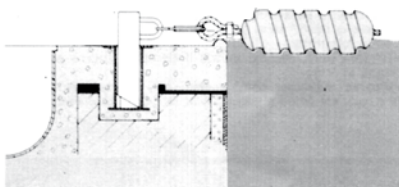
Made of AISI-316, allows the storage of the float lines beneath the deck. The float line box is embedded in the pool surround and holds the retractable reel over which the float line slides into the hole. This unit can be complemented with a lane rope collecting bag if required.

Code	Standard Packing	Standard Weight	Standard Volume m ³
15842	1	12.8	0.08



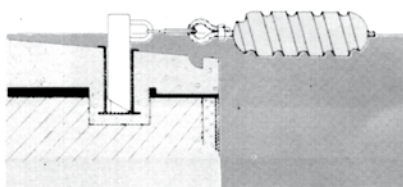
LANE ROPE ACCESSORIES

Zurich/Wiesbaden installation diagram



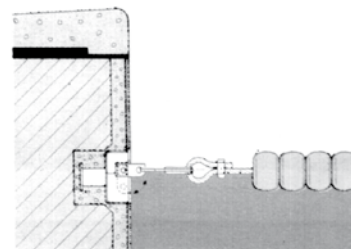
Anchor code 00141
Lane rope support code 00140

Finnish type installation diagram



Anchor code 00142
Lane rope support code 00140

Standard installation diagram



Anchoring cup code 09206
code 09207
code 00205
code 00206



Lane rope anchor

Made in Stainless Steel AISI-316. To use with anchoring fixture 00141 and 00142.

Code	Standard Packing	Standard Weight	Standard Volume m ³
00140	2	0.63	0.003



Concrete anchoring cup with central rod

Made in Stainless Steel AISI-316.

Code	Standard Packing	Standard Weight	Standard Volume m ³
09206	1	0.4	0.001

For concrete pool



Anchoring cup with central rod

Made in Stainless Steel AISI-316.

Code	Standard Packing	Standard Weight	Standard Volume m ³
09207	1	0.5	0.001

For pre-fabricated pools with flange, gasket and screws



Retractable anchoring cup

Made in Stainless Steel AISI-316.

Code	Standard Packing	Standard Weight	Standard Volume m ³
00205	1	0.46	0.001

For concrete pool



LANE ROPE ACCESSORIES



Retractable anchoring cup



Made in Stainless Steel AISI-316.

For prefabricated pools with flange, gaskets and screws

Code	Standard Packing	Standard Weight	Standard Volume m ³
00206	1	0.6	0.001



Lane rope ratchet



Chrome plated brass.

Code	Standard Packing	Standard Weight	Standard Volume m ³
00208	1	0.97	0.002



Lane rope ratchet



Made in Stainless Steel AISI-316.

Code	Standard Packing	Standard Weight	Standard Volume m ³
00209	1	0.2	0.001



Lane rope spring



Made in Stainless Steel AISI-304 with plate to attach cable.

Code	Standard Packing	Standard Weight	Standard Volume m ³
01468	1	0.62	0.002



Lane rope hook



Made in Stainless Steel AISI-304.

Code	Standard Packing	Standard Weight	Standard Volume m ³
00207	100	5	0.01

LANE ROPE ACCESSORIES



Cords and cables

	Code	Standard Packing	Standard Weight	Standard Volume m ³
Polyester Ø 7 mm	00210	110 m	2.0	0.090
Stainless Steel AISI-316 Ø 4 x 6 mm with plastic coating DIN 3055	00211	-	0.1	0.001
BCN03 cable Stainless Steel Ø 6 mm without plastic coating	28808	-	-	-



INDICATORS



False start indicators

Please indicate pool width when placing your order.

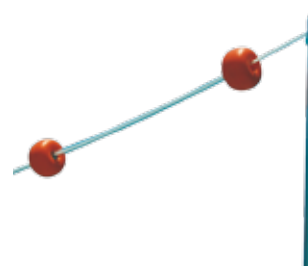
Comprises 2 posts in S.S. AISI-316 (one with pulley and quick release cord). Height 1.8 m. Anchoring socket not included.

False start posts:

	Code	Standard Packing	Standard Weight	Standard Volume m ³
- Pool width up to 21 m Ø 43 mm pipe for use with anchoring sockets 00141 and 00142	19950	1	5.6	0.01
- Pool width over 21 m Ø 48 mm pipe for use with anchoring sockets 19960 and 19961	19951	1	9.4	0.01

False start floats:

Polyester cord and floats	19954	1	-	-
---------------------------	-------	---	---	---

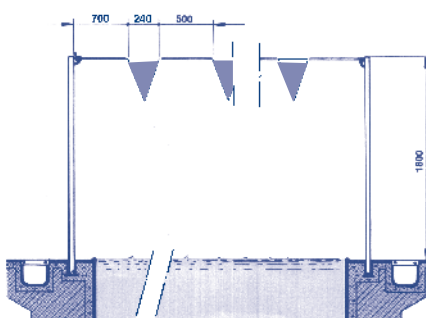
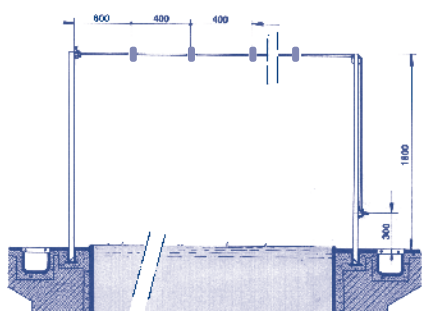


Backstroke turn indicators

Please indicate pool width when placing your order.

Comprises 4 posts in Stainless Steel AISI-316. Height 1.8 m. Anchoring sockets not included.

	Code	Standard Packing	Standard Weight	Standard Volume m ³
Backstroke turn indicator posts - Pool width up to 21 m Ø 43 mm pipe for use with anchoring sockets 00141 and 00142	19952	1	11.2	0.03
- Pool width over 21 m Ø 48 mm pipe for use with anchoring sockets 19960 and 19961	19953	1	20.0	0.03
Backstroke turn indicator bunting 2 Polyester cord and bunting	19955	1	-	-



TURNING PANELS



Turning panels

In Stainless Steel AISI-316 with plastic lattice screen. Height 300 mm. Fixing support (00139) is not included.

Lane width 2 m
Lane width 2.5 m

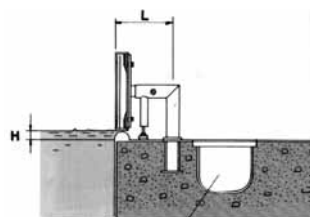
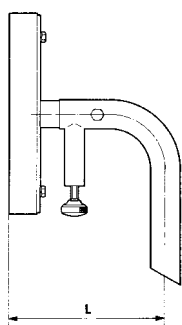
Code	Standard Packing	Standard Weight	Standard Volume m ³
00137	1	13.6	0.040
00138	1	16.5	0.051



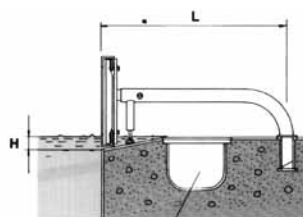
Fixing support for turning panels

In Stainless Steel AISI-316 for use with anchoring sockets 00141 and 00142. Please indicate dimension "H", "L" and type of overflow when ordering.

Code	Standard Packing	Standard Weight	Standard Volume m ³
00139	1	4.0	0.054

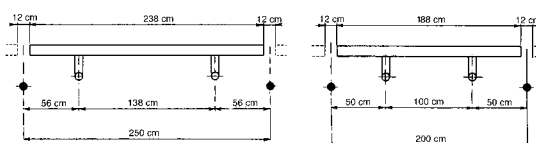


ZURICH-WIESBADEN

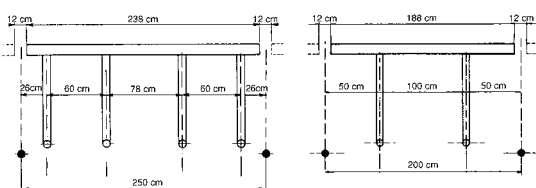


FINNISH

ANCHORING DETAILS WHEN MEASUREMENT «L» IS LESS THAN 500 mm.



ANCHORING DETAILS WHEN MEASUREMENT «L» IS OVER 500 mm.



ANCHORING SOCKETS



Horizontal flange anchoring sockets

Zurich-Wiesbaden. In S.S. AISI-316.

For pipe Ø 43 mm
For pipe Ø 48 mm

Code	Standard Packing	Standard Weight	Standard Volume m ³
00141	2	1.17	0.002
19960	2	1.3	0.002



Angled flange anchoring socket

Finnish. In S.S. AISI-316.

For pipe Ø 43 mm
For pipe Ø 48 mm

Code	Standard Packing	Standard Weight	Standard Volume m ³
00142	2	1.13	0.002
19961	2	1.26	0.002

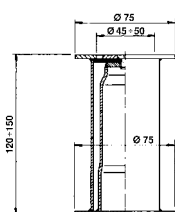


Anchoring socket with locking bolts

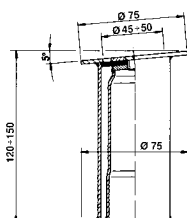
With bolts. In S.S. AISI-316.

With bolts. In S.S. AISI-316.

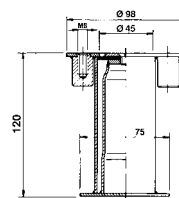
Code	Standard Packing	Standard Weight	Standard Volume m ³
00143	2	1.47	0.003



Code 00141
Code 19960

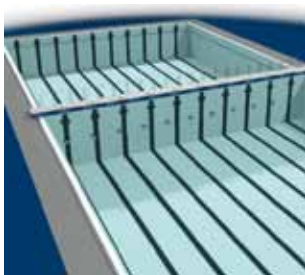


Code 00142
Code 19961



Code 00143

MOVABLE WALL



Movable wall

AstralPool has made available the technology that allows a single pool to be divided into two different pools for different uses. With this system, pool space and versatility, and therefore profitability is optimised, resulting in lower installation costs. The AstralPool system is easily adaptable and can be used in both new and existing pools. Recommended for Olympic swimming pools 25 x 50 x 2 metres.

AstralPool has developed a patented movable wall system, based around a modular design which offers one significant advantage above all others; versatility. The partial removal of these modular panels allows the full length of the pool to be used, should that be required.

Made in Stainless Steel AISI-304 and covered with white coloured non-slip sheets.

Technical features:

NET WEIGHT	8000 kg (Pool width 25 m)
MAXIMUM LOAD	200 kg / m ²
MOVEMENT	By S.S. rails embedded on pool sides.
TRACTION	By cables from both pool walls.
OPERATION	By a drum with double wound cable option: Manual operation.
POWER	¾ HP
STRUCTURE	Module of beams and lattice work of S.S. AISI-304.

Manufactured on order. Please, enquire.

Installations pictures: Movable wall in Ashgabat (Turkmenistan)

