



**WORLD
AQUATICS**

SWIMMING EVENT CERTIFICATION

ORGANIZING BODY

BUILDING NAME

OWNER

CONTRACTOR

DESIGN TEAM

DATE

WORLD AQUATICS

APPROVED BY

DATE

SIGNATURE

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MEASUREMENT CRITERIA

1. THE MEASUREMENTS SHALL BE DONE BY A CERTIFIED SURVEYOR, APPOINTED OR APPROVED BY THE MEMBER IN THE COUNTRY IN WHICH THE VENUE IS LOCATED.
2. THE SURVEYING EQUIPMENT SHALL BE A TOTAL STATION. THE MINIMUM REQUIREMENTS OF THE TOTAL STATION ARE THE FOLLOWING:
 - 2.1 ANGLE MEASUREMENT ACCURACY HORIZONTAL AND VERTICAL: 1" (0.3 MGON)
 - 2.2 DISTANCE MEASUREMENT ACCURACY: 1MM + 1.5PPM
3. THE SURVEYOR SHALL PROVIDE A CALIBRATION CERTIFICATE CONFIRMING THE MEASUREMENT QUALITY OF SURVEYING EQUIPMENT. THE CERTIFICATE SHALL HAVE A MAXIMUM VALIDITY OF 1 YEAR.
4. ALL DIMENSIONS SHALL BE MEASURED USING A MINI PRISM OR TARGETS.
5. THE MEASUREMENTS CORRESPONDING TO PART 2, 16.2.1, 16.2.2, 16.2.6, 16.2.7, 16.2.8 AND 16.2.9 SHALL BE MEASURED WITH THE POOL FULL OF WATER. THE WATER LEVEL CAN BE LOWERED UP TO 5CM TO AVOID WATER REFLECTION WHEN MEASURING.
6. THE WATER TEMPERATURE SHALL BE 25° TO 28° CENTIGRADE.
7. THE LENGTH OF THE POOL IN PART 2, 16.2.1 SHALL BE MEASURED IN THE CENTRE OF EACH LANE.

LENGTH AND DIMENSIONAL TOLERANCES - 50M POOL WITH NO BULKHEAD

This section shall apply to 50m pools with no bulkhead. For other pool types, please use the corresponding page.

PART 2, 16.2.1 - Length: 50.000m between the Automatic Officiating Equipment touch panels at the starting end and the wall at the turning end.

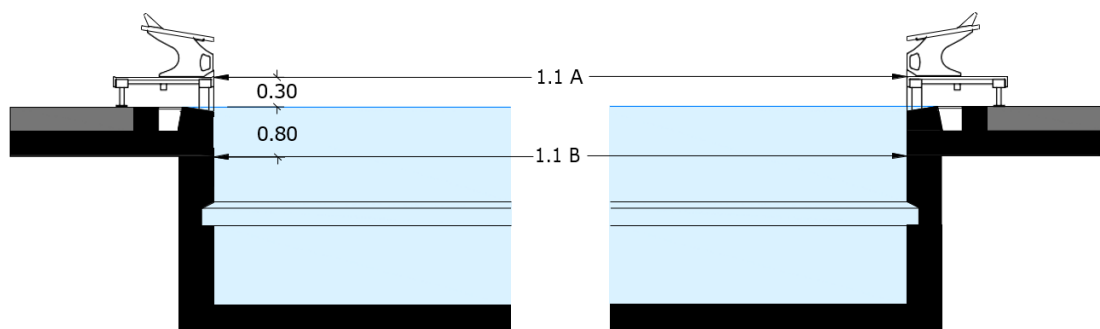
PART 2, 16.2.2.1 - The admissible tolerance in 50.000m swimming pools will be +0.010, -0.000m. Tolerances will be measured as follows:

Wall to Wall without touch panels: Minimum 50.020m - Maximum 50.030m

Tolerances have to be consistent 0.300m above to 0.800m below the water surface. These measurements should be certified by a surveyor or other qualified official, appointed or approved by the Member in the country in which the pool is located.

Distances between walls - Length shall be measured in the centre of the lane.

LANE NUMBER	1.1A [M]	1.1B [M]
0		
1		
2		
3		
4		
5		
6		
7		
8		
9		



LENGTH AND DIMENSIONAL TOLERANCES - 50M POOL WITH BULKHEAD

This section shall apply to 50m pools with a bulkhead. For other pool types, please use the corresponding page.

PART 2, 16.2.1 - Length: 50.000m between the Automatic Officiating Equipment touch panels at the starting end and the bulkhead at the turning end.

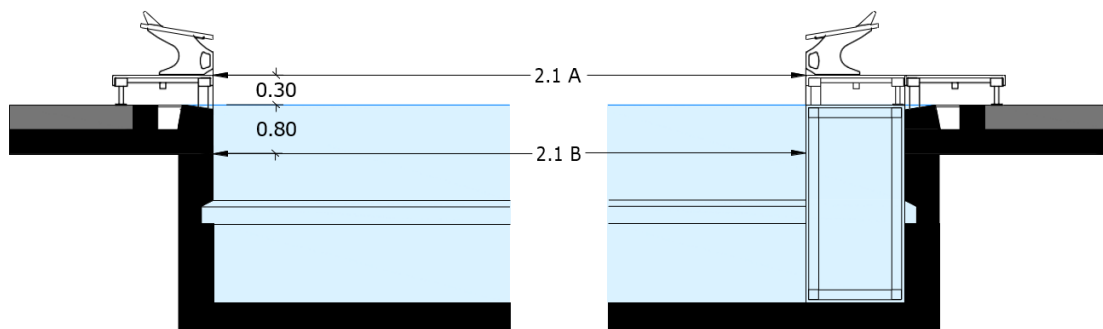
PART 2, 16.2.2.1 - The admissible tolerance in 50.000m swimming pools will be +0.010, -0.000m. Tolerances will be measured as follows:

Wall to Bulkhead without touch panels: Minimum 50.020m - Maximum 50.030m

Tolerances have to be consistent 0.300m above to 0.800m below the water surface. These measurements should be certified by a surveyor or other qualified official, appointed or approved by the Member in the country in which the pool is located.

Distances between walls - Length shall be measured in the centre of the lane.

LANE NUMBER	2.1A [M]	2.1B [M]
0		
1		
2		
3		
4		
5		
6		
7		
8		
9		



LENGTH AND DIMENSIONAL TOLERANCES - 25M POOL WITH BULKHEAD

This section shall apply to 25m pools with a bulkhead. For other pool types, please use the corresponding page.

PART 2, 16.2.1 - Length: For the World Aquatics Swimming Championships (25m) the length shall be 25.000m between the Automatic Officiating Equipment touch panels at the starting end and the wall or bulkhead at the turning end.

PART 2, 16.2.2.1 - The admissible tolerance in 25.000m swimming pools will be +0.010, -0.000m. Tolerances will be measured as follows:

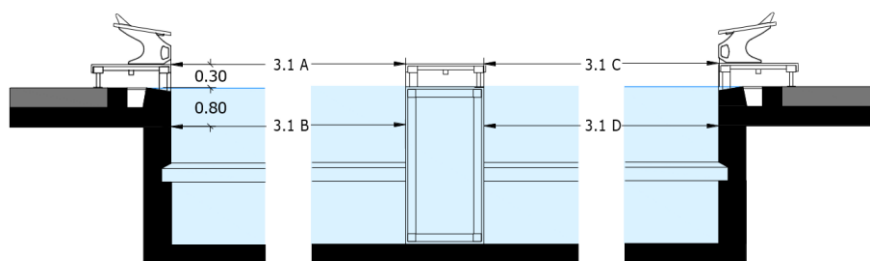
Wall to Bulkhead without touch panels: Minimum 25.020m - Maximum 25.030m*

*The distance during competition must be 25.000m - 25.010m.

Tolerances have to be consistent 0.300m above to 0.800m below the water surface. These measurements should be certified by a surveyor or other qualified official, appointed or approved by the Member in the country in which the pool is located.

Distances between walls - Length shall be measured in the centre of the lane.

LANE NUMBER	3.1A [M]	3.1B [M]	3.1C [M]	3.1D [M]
0				
1				
2				
3				
4				
5				
6				
7				
8				
9				



WIDTH

PART 2, 16.2.3.1 - Olympic Games: Permanent Swimming Pools shall be a minimum of 25.00m and Temporary Swimming Pools shall be 26.00m.

PART 2, 16.2.3.2 - World Aquatic Championships: Permanent Swimming Pools shall be a minimum of 25.00m and Temporary Swimming Pools shall be 26.00m.

If no damage or renovation has occurred since the submission of the Swimming Pool Certification, measurements from that document shall be accepted.

WORLD AQUATICS RULE	COMPLIANT	NONCOMPLIANT
PART 2, 16.2.3		

WATER DEPTH

PART 2, 16.2.4.1 - Olympic Games and World Aquatics Championships 50m pool: A minimum of 2.5m.

PART 2, 16.2.4.2 - World Aquatics Championships 25m pool: A minimum of 2.0m, 2.5m preferred.

PART 2, 16.2.4.3 - When the pool is used for multi-sports (i.e., Artistic Swimming and Swimming) at either the Olympic Games or World Aquatics Championships: A minimum of 3m is required.

If no damage or renovation has occurred since the submission of the Swimming Pool Certification, measurements from that document shall be accepted.

WORLD AQUATICS RULE	COMPLIANT	NONCOMPLIANT
PART 2, 16.2.4		

LANES AND LANE ROPES - OLYMPIC GAMES

PART 2, 16.2.6.1 – Eight (8) lanes for Olympic Games, although 9 or 10 lanes may be used with approval from the Chair of the Technical Swimming Committee when faced with unusual circumstances.

WORLD AQUATICS RULE	COMPLIANT	NONCOMPLIANT	N/A
PART 2, 16.2.6.1 – OLYMPIC GAMES			
NUMBER OF LANES			

PART 2, 16.2.6.2 – Lanes shall be 2.5m wide with 2 spaces 2.5m wide outside of lanes 1 and 8. There must be a lane rope separating these spaces from lanes 1 and 8.

WORLD AQUATICS RULE	COMPLIANT	NONCOMPLIANT
PART 2, 16.2.6.2		

PART 2, 16.2.7.1 – [...] Lane ropes shall extend the full length of the course, secured at each end wall to anchor brackets recessed into the end walls. The anchor shall be positioned so that the floats at each end wall of the pool shall be on the surface of the water. Each lane rope will consist of floats placed end-to-end having a minimum diameter of 0.15m. [...] The components extending for a distance of 5.0m from each end of the pool shall be of RED colour. There shall not be more than one lane rope between each lane. The lane ropes shall be firmly stretched and the tensions should be between 1kN and 1,2kN.

Lane ropes shall comply with the entirety of PART 2, 16.2.7.1

WORLD AQUATICS RULE	COMPLIANT	NONCOMPLIANT
PART 2, 16.2.7.1		

PART 2, 16.2.7.1.1 In an 8 (eight) lanes swimming pool the colour of the lane ropes should be as follows, unless otherwise varied by World Aquatics:

Two (2) GREEN ropes for lanes 1 and 8

Four (4) BLUE ropes for lanes 2, 3, 6 and 7

Three (3) YELLOW ropes for lanes 4 and 5

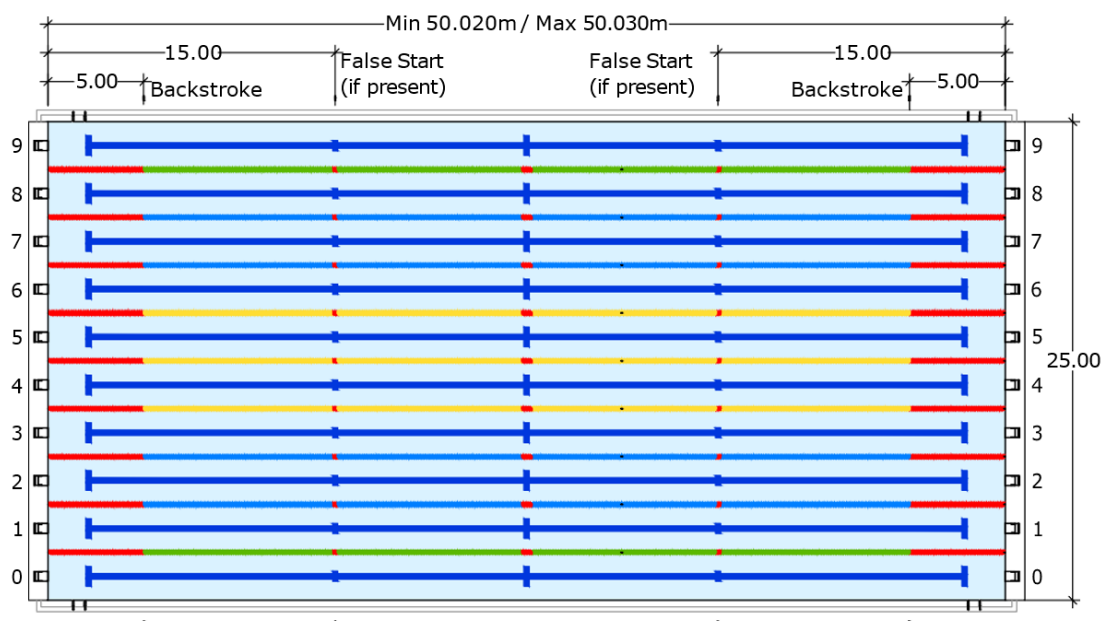
WORLD AQUATICS RULE	COMPLIANT	NONCOMPLIANT
PART 2, 16.2.7.1.1		

PART 2, 16.2.7.2 - At the 15m mark from each end wall of the pool the components shall be distinct in colour from the surrounding floats.

WORLD AQUATICS RULE	COMPLIANT	NONCOMPLIANT
PART 2, 16.2.7.2		

PART 2, 16.2.7.3 - In 50m pools the components shall be distinct in colour from the surrounding floats to mark 25m.

WORLD AQUATICS RULE	COMPLIANT	NONCOMPLIANT
PART 2, 16.2.7.3		



LANES AND LANE ROPES - WORLD CHAMPIONSHIPS - PERMANENT POOLS

PART 2, 16.2.6.1 - Number of lanes: 10 lanes for World Championships.

WORLD AQUATICS RULE	COMPLIANT	NONCOMPLIANT
PART 2, 16.2.6.1 - WORLD CHAMPIONSHIPS		
NUMBER OF LANES		

PART 2, 16.2.6.3 - Lanes from 1 to 8 shall be 2.5m wide and lanes 0 and 9 shall be 2.4m wide with 2 spaces 0.1m wide outside of lanes 0 and 9. There must be a lane rope separating these spaces from lanes 0 and 9.

WORLD AQUATICS RULE	COMPLIANT	NONCOMPLIANT
PART 2, 16.2.6.3		

PART 2, 16.2.7.1 - [...] Lane ropes shall extend the full length of the course, secured at each end wall to anchor brackets recessed into the end walls. The anchor shall be positioned so that the floats at each end wall of the pool shall be on the surface of the water. Each lane rope will consist of floats placed end-to-end having a minimum diameter of 0.15m. [...] The components extending for a distance of 5.0m from each end of the pool shall be of RED colour. There shall not be more than one lane rope between each lane. The lane ropes shall be firmly stretched and the tensions should be between 1kN and 1,2kN.

Lane ropes shall comply with the entirety of PART 2, 16.2.7.1

WORLD AQUATICS RULE	COMPLIANT	NONCOMPLIANT
PART 2, 16.2.7.1		

PART 2, 16.2.7.1.2 - In a ten (10) lane swimming pool the colour of the lane ropes should be as follows, unless otherwise varied by World Aquatics:

Two (2) GREEN ropes for lanes 0 and 9

Six (6) BLUE ropes for lanes 1, 2, 3, 6, 7 and 8

Three (3) YELLOW ropes for lanes 4, 5

The floats extending for a distance of 5.0 metres from each end of the pool shall be of RED colour

WORLD AQUATICS RULE	COMPLIANT	NONCOMPLIANT
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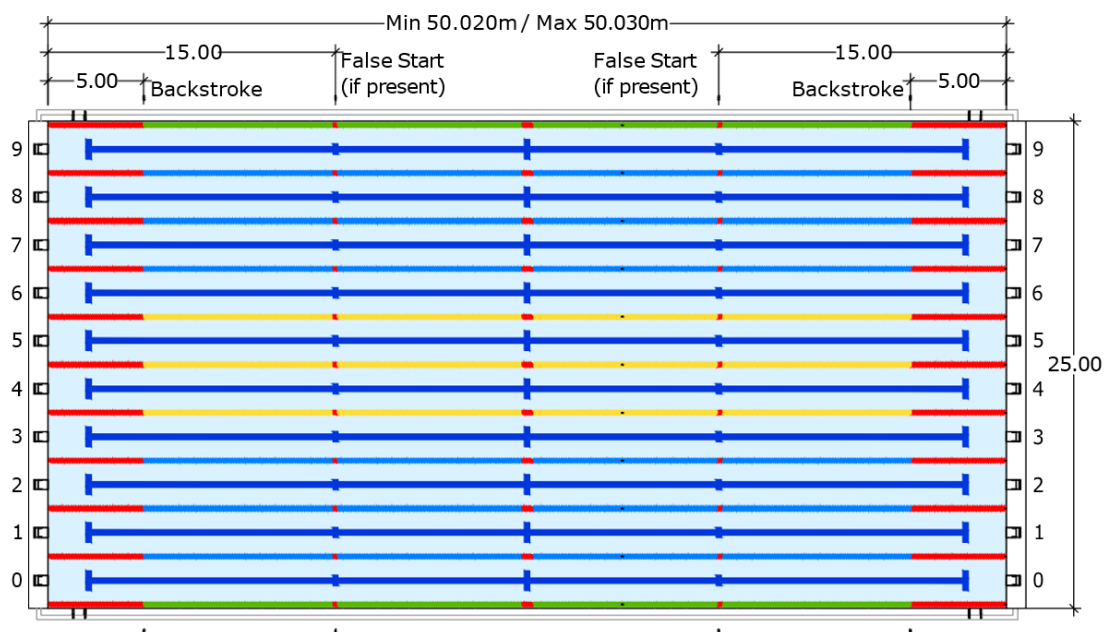
PART 2, 16.2.7.1.2		
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PART 2, 16.2.7.2 - At the 15m mark from each end wall of the pool the components shall be distinct in colour from the surrounding floats.

WORLD AQUATICS RULE	COMPLIANT	NONCOMPLIANT
PART 2, 16.2.7.2		

PART 2, 16.2.7.3 - In 50m pools the components shall be distinct in colour from the surrounding floats to mark 25m.

WORLD AQUATICS RULE	COMPLIANT	NONCOMPLIANT	N/A (25M ONLY)
PART 2, 16.2.7.3			



LANES AND LANE ROPES - WORLD CHAMPIONSHIPS - TEMPORARY POOLS

PART 2, 16.2.6.1 - Number of lanes: 10 lanes for World Championships.

WORLD AQUATICS RULE	COMPLIANT	NONCOMPLIANT
PART 2, 16.2.6.1 - WORLD CHAMPIONSHIPS		
NUMBER OF LANES		

PART 2, 16.2.6.3 - Lanes shall be 2.5m wide with 2 spaces 0.5m wide outside of lanes 0 and 9. There must be a lane rope separating these spaces from lanes 0 and 9.

WORLD AQUATICS RULE	COMPLIANT	NONCOMPLIANT
PART 2, 16.2.6.3		

PART 2, 16.2.7.1 - [...] Lane ropes shall extend the full length of the course, secured at each end wall to anchor brackets recessed into the end walls. The anchor shall be positioned so that the floats at each end wall of the pool shall be on the surface of the water. Each lane rope will consist of floats placed end-to-end having a minimum diameter of 0.15m. [...] The components extending for a distance of 5.0m from each end of the pool shall be of RED colour. There shall not be more than one lane rope between each lane. The lane ropes shall be firmly stretched and the tensions should be between 1kN and 1,2kN.

Lane ropes shall comply with the entirety of PART 2, 16.2.7.1

WORLD AQUATICS RULE	COMPLIANT	NONCOMPLIANT
PART 2, 16.2.7.1		

PART 2, 16.2.7.1.2 - In a ten (10) lane swimming pool the colour of the lane ropes should be as follows, unless otherwise varied by World Aquatics:

Two (2) GREEN ropes for lanes 0 and 9

Six (6) BLUE ropes for lanes 1, 2, 3, 6, 7 and 8

Three (3) YELLOW ropes for lanes 4, 5

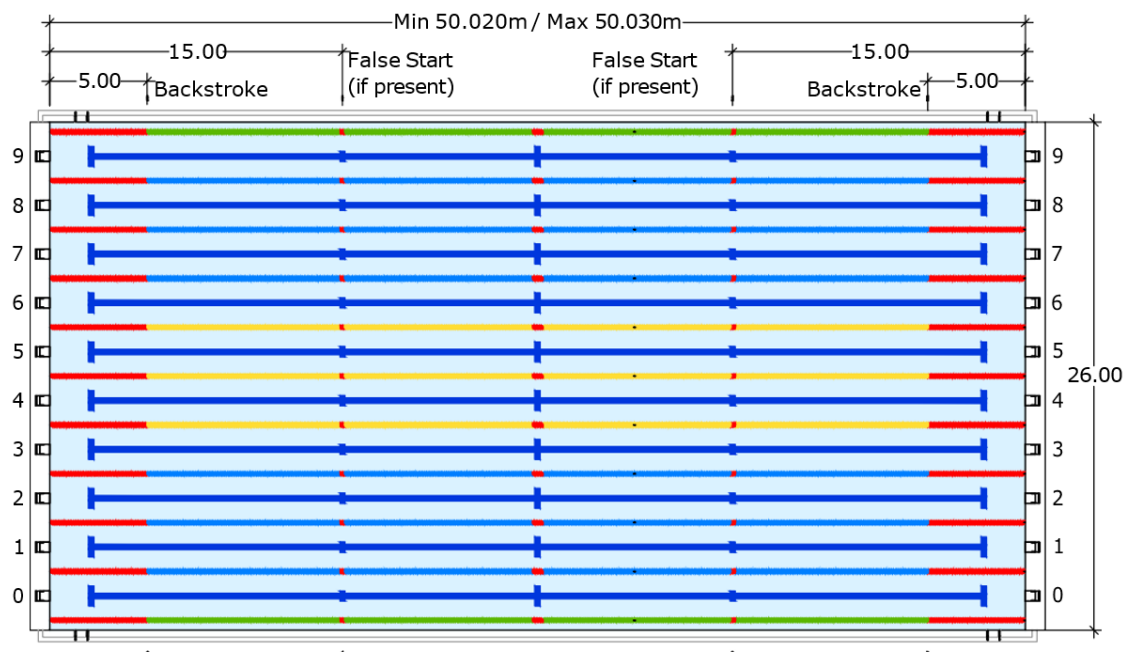
WORLD AQUATICS RULE	COMPLIANT	NONCOMPLIANT
PART 2, 16.2.7.1.2		

PART 2, 16.2.7.2 - At the 15m mark from each end wall of the pool the components shall be distinct in colour from the surrounding floats.

WORLD AQUATICS RULE	COMPLIANT	NONCOMPLIANT
PART 2, 16.2.7.2		

PART 2, 16.2.7.3 - In 50m pools the components shall be distinct in colour from the surrounding floats to mark 25m.

WORLD AQUATICS RULE	COMPLIANT	NONCOMPLIANT	N/A (25M ONLY)
PART 2, 16.2.7.3			



STARTING PLATFORMS

PART 2, 16.2.8 - Starting Platforms shall be firm and give no springing effect. The height of the platform (4.1 A) above the water surface shall be from 0.5m to 0.75m.

WORLD AQUATICS RULE	COMPLIANT	NONCOMPLIANT
PART 2, 16.2.8 (1)		

PART 2, 16.2.8 - The surface area (4.1 B x 4.1 C) shall be at least 0.5m x 0.6m and covered with a slip- resistant material.

WORLD AQUATICS RULE	COMPLIANT	NONCOMPLIANT
PART 2, 16.2.8 (2)		

PART 2, 16.2.8 - Maximum slope (4.1 β) shall not be more than 10 degrees.

WORLD AQUATICS RULE	COMPLIANT	NONCOMPLIANT
PART 2, 16.2.8 (3)		

PART 2, 16.2.8 - The starting platform may have an adjustable setting back plate. The platform shall be constructed so as to permit the gripping of the platform by the swimmer in the forward start at the front and the sides; it is recommended that, if the thickness of the starting platform exceeds 0.04m, grips of at least 0.1m width on each side and 0.4m width in the front be cut out to 0.03m from the surface of the platform.

WORLD AQUATICS RULE	COMPLIANT	NONCOMPLIANT
PART 2, 16.2.8 (4)		

PART 2, 16.2.8 - Handgrips for the forward start may be installed on the sides of the starting platforms.

WORLD AQUATICS RULE	COMPLIANT	NONCOMPLIANT	N/A
PART 2, 16.2.8 (5)			

PART 2, 16.2.8 - Handgrips for backstroke starts shall be placed within 0.3m to 0.6m above the water surface (4.1 D and 4.1 E) both horizontally and vertically. They shall be parallel to the surface of the end wall and must not protrude beyond the end wall.

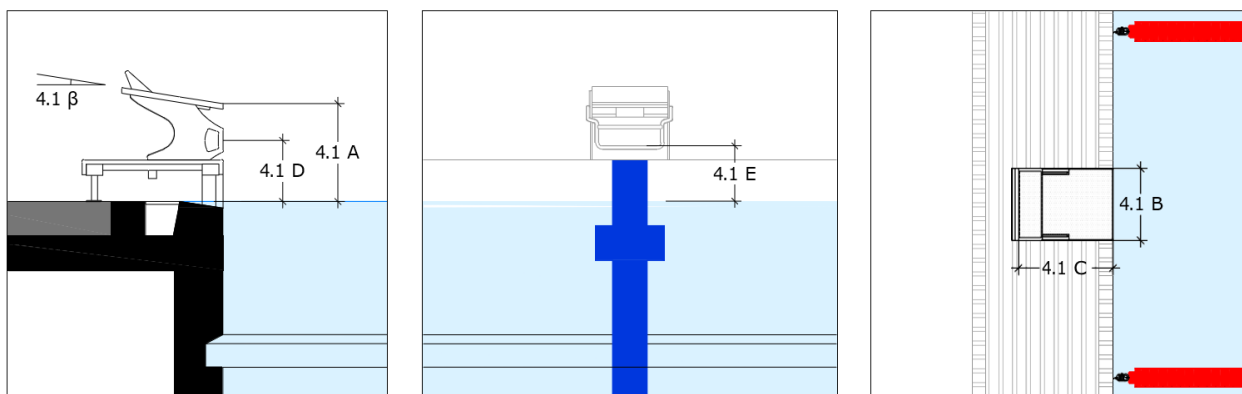
WORLD AQUATICS RULE	COMPLIANT	NONCOMPLIANT
PART 2, 16.2.8 (6)		

PART 2, 16.2.8 - A minimum depth of 1.35m, extending from 1.0m to at least 6.0m from the end wall is required for pools with starting blocks.

WORLD AQUATICS RULE	COMPLIANT	NONCOMPLIANT
PART 2, 16.2.8 (7)		

PART 2, 16.2.8 - Electronic read-out boards may be installed under the blocks. Flashing is not allowed. Figures must not move during a backstroke start.

WORLD AQUATICS RULE	COMPLIANT	NONCOMPLIANT	N/A
PART 2, 16.2.8 (8)			



NUMBERING

PART 2, 16.2.9 - Each starting block must be distinctly numbered on all four sides, clearly visible. It is recommended that lane number 0 shall be on the right-hand side when facing the course from the starting end with exception of 50m events, which may start from the opposite end. Touch panels may be numbered on the top and/or bottom part.

WORLD AQUATICS RULE	COMPLIANT	NONCOMPLIANT
PART 2, 16.2.9		

BACKSTROKE TURN INDICATORS

PART 2, 16.2.10 - Flagged ropes shall be suspended across the pool, 1.8m above the water surface, from fixed stanchions placed 5.0m from each end wall. Flags must be fixed to the ropes having the following dimensions: 0.20m on the rope forming a triangle measuring 0.40m on the sides. The distance between each flag must be 0.25m. If the flags are printed with or support / carry any signage this must be approved in advance by World Aquatics.

WORLD AQUATICS RULE	COMPLIANT	NONCOMPLIANT
PART 2, 16.2.10		

BACKSTROKE START LEDGE

PART 2, 16.2.10 - A backstroke ledge may be used. The ledge may be adjustable to 4 cm above or 4 cm below the water level. The ledge must be a minimum of 65 cm in length. The ledge must be 8 cm in height, 2 cm at the width with 10 degrees of slope.

WORLD AQUATICS RULE	YES	NO	N/A
BACKSTROKE START LEDGES PRESENT			-
START LEDGES COMPLIANT WITH PART 2, 16.2.10			

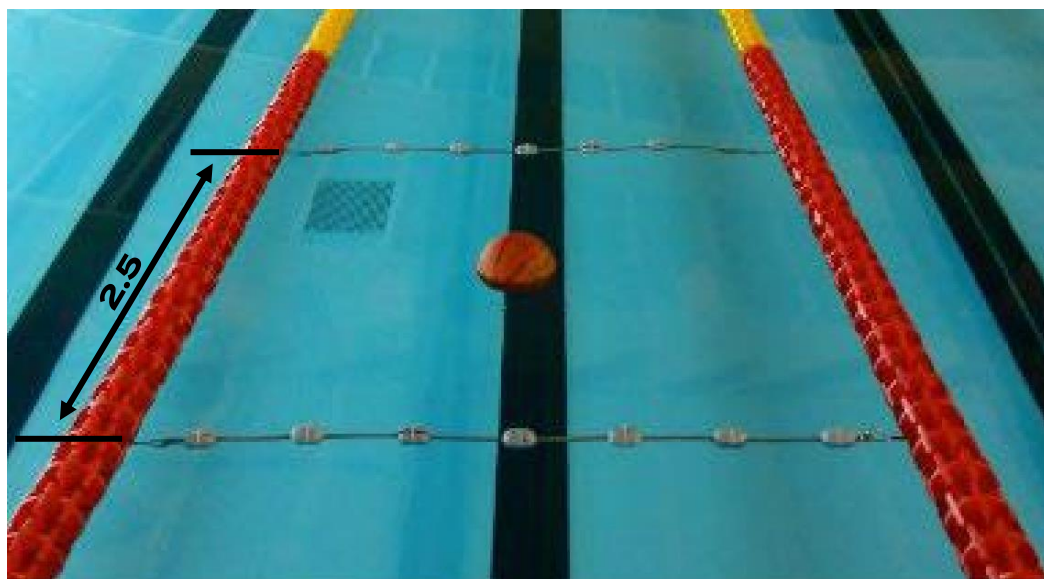
WATER CONDITIONS

PART 2, 16.2.13.1 - The water temperature shall be 25° to 28° Centigrade.

WORLD AQUATICS RULE	COMPLIANT	NONCOMPLIANT
PART 2, 16.2.13.1		

PART 2, 16.2.13.2 - During competition, the water in the pool must be at a constant level, with no appreciable movement. The practical way to test this is to install two floating lines crosswise in a swim lane (to obtain a square with 2,5m size) and then to leave the basketball in the central point of the square. If the ball does not touch any of the four lane ropes within 60 seconds, the turbulence test is successful. Test should be repeated in lanes 1,3,6,8 on two sides, at 5m from each end of the pool (end wall or bulkhead).

WORLD AQUATICS RULE	COMPLIANT	NONCOMPLIANT
PART 2, 16.2.13.2		



PART 2, 16.2.13.3 - World Records and World Junior Records can be established only in water with less than 3 gr/litre of salt. No World Records will be recognized in any kind of sea or ocean water.

WORLD AQUATICS RULE	COMPLIANT	NONCOMPLIANT
PART 2, 16.2.13.3		

LIGHT INTENSITY

PART 2, 16.2.14 - The light intensity over the whole pool shall not be less than 1500 lux. A lighting report shall be issued in addendum with this document.

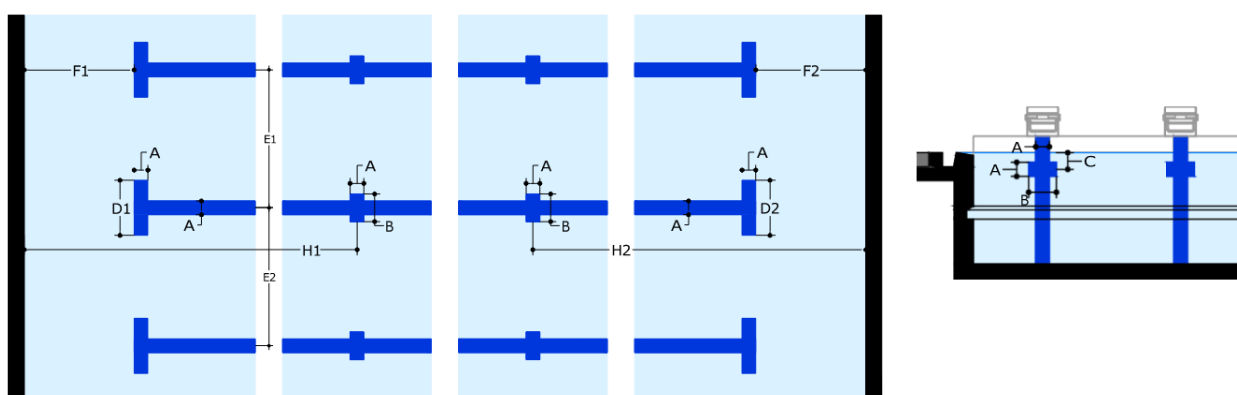
WORLD AQUATICS RULE	COMPLIANT	NONCOMPLIANT
LIGHTING REPORT ISSUED		
PART 2, 16.2.14		

LANE MARKINGS

PART 2, 16.2.15 - Lane Markings shall be of a dark contrasting colour, placed on the floor of the pool in the centre of each lane.

If no damage or renovation has occurred since the submission of the Swimming Pool Certification, measurements from that document shall be accepted.

WORLD AQUATICS RULE	COMPLIANT	NONCOMPLIANT
PART 2, 16.2.15		



ADDITIONAL COMMENTS

THIS SECTION IS PROVIDED FOR ADDITIONAL COMMENTS:

SIGNATURES

BUILDING NAME			
SURVEYOR		SIGNATURE	
POOL EXPERT		SIGNATURE	
ORGANIZING BODY		SIGNATURE	
FEDERATION			
POOL NUMBER		DATE	