POOL LINING MATERIAL

VITREOUS LINING

Model: SMOOTH

DEGRADED BLUE

| A | B | C | D | E |

Degraded model using these five colours:
POSITIONS:
A: White - B: Pool Blue - C: Bright Blue -
D: Standard Blue - E: Dark Blue.

CUSTOM MADE DEGRADED

Indicate dimensions to recover and the selection
of colours to combine for obtaining
your customised area.
Check with your distributor.

Pressed and later cooked Vitreous mosaic.
Developed and designed to resist chemical products, frost, stain and other hard weather conditions.

Due to its unalterability, easy clean and installation it is an optimum alternative to recover pools, wellness or outdoor-indoor decoration.

TECHNICAL CHARACTERISTICS			
UNE-EN ISO	10545-3:1997	Water absortion	< 0.1%
	EN-101:1991	Scratch resistence (Mohs)	5
UNE-ENV	12633:2003 Addendum A	Slip resistance (Pendulum)	11
UNE-EN ISO	10545-9:1997	Termical shock resistance	Resists
UNE-EN ISO	10545-12:1997	Frost resistance	Resists
UNE-EN ISO	10545-14:1998	Stain resistance	Class 5 (Hot water)
UNE-EN ISO	10545-13:1998	Chemical resistance	Class A resistance

OPTIONS				
NOMINAL FORMAT	THICKNESS	PAPER	PLOT	FIBER
25 x 25 mm	4.2 - 4.7 mm	Available	Available	On demmand
50 x 50 mm	5.2 - 5.7 mm	-	Available	-

FINISHED	PAPER	PLOT	FIBER
PAPER: Once applied to wall, paper must be removed. PLOT AND FIBER: Both sticked to the rear side of the mosaic plate. It will remain directly to the support.			

PACKAGING					
FORMAT	m²/Box	m²/Pallet	Box/Pallet	Kg/Box	Kg/Pallet
25 x 25 mm Standard	2	144	72	18	1316
50 x 50 mm Standard	2	108	54	22	1208

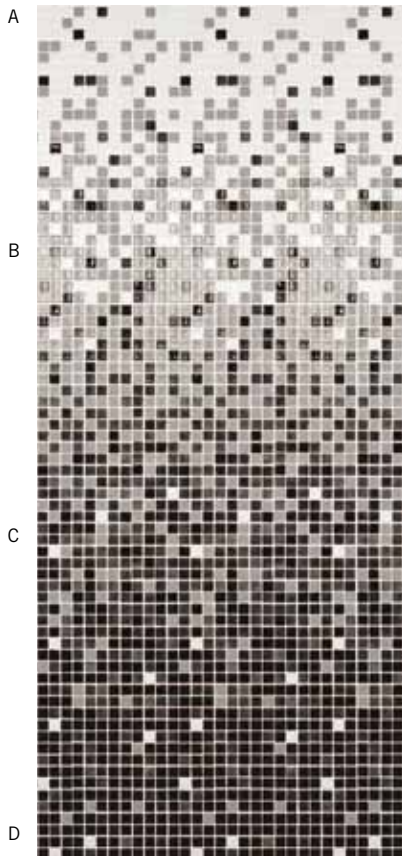| COMBINATIONS 25 x 25 mm		
BALEARES WHITE - POOL BLUE PLOT: 45125	AGUAMARINA WHITE - STD. BLUE - DARK BLUE PLOT: 45128	MALDIVAS WHITE - STD. BLUE PLOT: 28005

Possibility of combine other smooth colours. Check with your distributor.
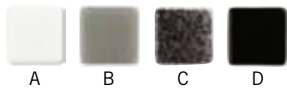
CODES													
FORMAT	GREEN-254	VIOLET-270	GREEN-271	BRIGHT BLUE	STD. BLUE	POOL BLUE	DARK BLUE	COBALT BLUE	WHITE	YELLOW	ORANGE	RED	GREY-258	BLACK
25 x 25 mm PAPER	44792	44794	21316	21293	21292	44802	21294	21303	21291	44801	44804	43632	21313	21296
25 x 25 mm PLOT	44827	44830	44831	28010	28011	44840	28009	44839	28012	44838	44842	44848	44829	44843
50 x 50 mm PLOT	44999	45002	45003	45011	45014	45015	45013	45012	45016	45010	45018	45027	45001	45019

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VITREOUS LINING

Model: FOG

A
B
C
D

DEGRADED NIGHT

A   B   C   D

Degraded model using these four colours:
POSITIONS:
A: White - B: Grey - C: Black fog - D: Black

CUSTOM MADE DEGRADED

Indicate dimensions to recover and the selection
of colours to combine for obtaining
your customised area.

Check with your distributor.

Pressed and later cooked Vitreous mosaic.
Developed and designed to resist chemical products, frost, stain and other hard weather conditions.

Due to its unalterability, easy clean and installation it is an optimum alternative to recover pools, wellness or outdoor-indoor decoration.

TECHNICAL CHARACTERISTICS

UNE-EN ISO	10545-3:1997	Water absortion	< 0.1%
	EN-101:1991	Scratch resistence (Mohs)	5
UNE-ENV	12633:2003 Addendum A	Slip resistance (Pendulum)	17
UNE-EN ISO	10545-9:1997	Termical shock resistance	Resists
UNE-EN ISO	10545-12:1997	Frost resistance	Resists
UNE-EN ISO	10545-14:1998	Stain resistance	Class 5 (Hot water)
UNE-EN ISO	10545-13:1998	Chemical resistance	Class A resistance

OPTIONS

NOMINAL FORMAT	THICKNESS	PAPER	PLOT	FIBER
25 x 25 mm	4.2 - 4.7 mm	Available	Available	On demmand
50 x 50 mm	5.2 - 5.7 mm	-	Available	-

FINISHED

	PAPER	PLOT	FIBER
PAPER: Once applied to wall, paper must be removed. PLOT AND FIBER: Both sticked to the rear side of the mosaic plate. It will remain directly to the support..			

PACKAGING

FORMAT	m²/Box	m²/Pallet	Box/Pallet	Kg/Box	Kg/Pallet
25 x 25 mm Standard	2	144	72	18	1316
50 x 50 mm Standard	2	108	54	22	1208

COMBINATIONS 25 x 25 mm

TURQUESA
NIEBLA AZUL - NIEBLA FUERTE
PLOT: 45124

Possibility of combine other foggy colours. Check with your distributor.

CODES

FORMAT	GREEN-204	VIOLET-210	GREEN-211	FOG BLUE	POOL FOG	DARK FOG	ORANGE FOG	RED FOG	BLACK FOG
25 x 25 mm PAPER	44780	43635	44784	21297	21298	21299	44805	44807	44806
25 x 25 mm PLOT	44813	44817	44818	28008	28007	28006	44844	44846	44845
50 x 50 mm PLOT	44985	44989	44990	45020	45024	45021	45022	45025	45023

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VITREOUS LINING

Model: SMOOTH ANTISLIP

Pressed and later cooked Vitreous mosaic.
Designed for your safety, we introduce this anti slip mosaic.
Developed and designed to resist chemical products, frost, stain and other hard weather conditions.

Due to its unalterability, easy clean and installation it is an optimum alternative to recover pools, wellness or outdoor-indoor decoration or walk ways. High adherence in wet areas.

TECHNICAL CHARACTERISTICS (CLASS 2)			
UNE-EN ISO	10545-3:1997	Water absortion	< 0.1%
	EN-101:1991	Scratch resistence (Mohs)	6
UNE-ENV	12633:2003 Addendum A	Slip resistance (Pendulum)	43
UNE-EN ISO	10545-9:1997	Termical shock resistance	Resists
UNE-EN ISO	10545-12:1997	Frost resistance	Resists
UNE-EN ISO	10545-14:1998	Stain resistance	Class 5 (Hot water)
UNE-EN ISO	10545-13:1998	Chemical resistance	Class A resistance

ANTI SLIP TECHNICAL INFORMATION (CLASS 3)		OPTIONAL (ON DEMMAND)	
	DIN51130:2004 Section 5	Slipery critical angle (Ramp)	R13 (36.2º)
UNE-EN ISO	ISO/DIS 10545-17	DFC (Dynamic friction coefficient)	> 0.75 excellent
UNE-ENV	12633:2003 Addendum A	Slip resistance (Pendulum)	67

OPTIONS			
NOMINAL FORMAT	THICKNESS	PLOT	FIBER
25 x 25 mm	4.2 - 4.7 mm	Available	On demmand
50 x 50 mm	5.2 - 5.7 mm	Available	-

FINISHED	PLOT	FIBER
PLOT AND FIBER: Both sticked to the rear side of the mosaic plate. It will remain directly to the support.		

PACKAGING					
FORMAT	m²/Box	m²/Pallet	Box/Pallet	Kg/Box	Kg/Pallet
25 x 25 mm Standard	2	144	72	18	1316
50 x 50 mm Standard	2	108	54	22	1208

CODES (CLASS 2)													
FORMAT	GREEN-254	VIOLET-270	GREEN-271	BRIGHT BLUE	STD. BLUE	POOL BLUE	DARK BLUE	COBALT BLUE	WHITE	YELLOW	ORANGE	RED	BLACK
25 x 25 mm PLOT	44867	44870	44871	44879	44882	44883	44881	44880	44884	44878	44886	44893	43631
50 x 50 mm PLOT	45806	45809	45810	45818	45821	45822	45820	45819	45823	45817	45825	45834	45826

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VITREOUS LINING

Model: FOG ANTISLIP

Pressed and later cooked Vitreous mosaic.
Designed for your safety, we introduce this anti slip mosaic.
Developed and designed to resist chemical products, frost, stain and other hard weather conditions.

Due to its unalterability, easy clean and installation it is an optimum alternative to recover pools, wellness or outdoor-indoor decoration or walk ways. High adherence in wet areas.

TECHNICAL CHARACTERISTICS (CLASS 2)			
UNE-EN ISO	10545-3:1997	Water absortion	< 0.1%
	EN-101:1991	Scratch resistence (Mohs)	6
UNE-ENV	12633:2003 Addendum A	Slip resistance (Pendulum)	43
UNE-EN ISO	10545-9:1997	Termical shock resistance	Resists
UNE-EN ISO	10545-12:1997	Frost resistance	Resists
UNE-EN ISO	10545-14:1998	Stain resistance	Class 5 (Hot water)
UNE-EN ISO	10545-13:1998	Chemical resistance	Class A resistance

ANTI SLIP TECHNICAL INFORMATION (CLASS 3)		OPTIONAL (ON DEMMAND)	
	DIN51130:2004 Section 5	Slipery critical angle (Ramp)	R13 (36.2°)
UNE-EN ISO	ISO/DIS 10545-17	DFC (Dynamic friction coefficient)	> 0.75 excellent
UNE-ENV	12633:2003 Addendum A	Slip resistance (Pendulum)	67

OPTIONS			
NOMINAL FORMAT	THICKNESS	PLOT	FIBER
25 x 25 mm	4.2 - 4.7 mm	Available	On demmand
50 x 50 mm	5.2 - 5.7 mm	Available	-

FINISHED	PLOT	FIBER
PLOT AND FIBER: Both sticked to the rear side of the mosaic plate. It will remain directly to the support.		

PACKAGING					
FORMAT	m²/Box	m²/Pallet	Box/Pallet	Kg/Box	Kg/Pallet
25 x 25 mm Standard	2	144	72	18	1316
50 x 50 mm Standard	2	108	54	22	1208

CODES (CLASS 2)									
FORMAT	GREEN-204	VIOLET-210	GREEN-211	BLUE FOG	POOL FOG	DARK FOG	ORANGE FOG	RED FOG	BLACK FOG
25 x 25 mm PLOT	44853	44857	44858	43633	44890	44887	44888	44891	44889
50 x 50 mm PLOT	45792	45796	45797	45827	45831	45828	45829	45832	45830

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POOL LINING MATERIAL

VITREOUS LINING

Model: GLOSSY   new

Pressed and later cooked Vitreous mosaic.
Iridiscent effect. Bright and colour variations according to the light exposure.
Developed and designed to resist chemical products, frost, stain and other hard weather conditions.

Due to its unalterability, easy clean and installation it is an optimum alternative to recover pools, wellness or outdoor-indoor decoration.

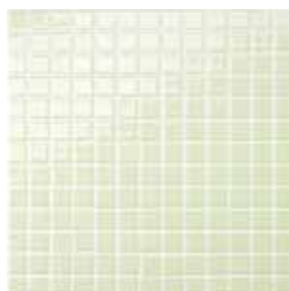| TECHNICAL CHARACTERISTICS			
UNE-EN ISO	10545-3:1997	Water absortion	< 0.1%
	EN-101:1991	Scratch resistence (Mohs)	5
UNE-ENV	12633:2003 Addendum A	Slip resistance (Pendulum)	11
UNE-EN ISO	10545-9:1997	Termical shock resistance	Resists
UNE-EN ISO	10545-12:1997	Frost resistance	Resists
UNE-EN ISO	10545-14:1998	Stain resistance	Class 5 (Hot water)
UNE-EN ISO	10545-13:1998	Chemical resistance	Class A resistance

OPTIONS				
NOMINAL FORMAT	THICKNESS	PAPER	PLOT	FIBER
25 x 25 mm	4.2 - 4.7 mm	-	Available	-

FINISHED	PLOT
PLOT: Sticked to the rear side of the mosaic plate. It will remain directly to the support.	

PACKAGING					
FORMAT	m²/Box	m²/Pallet	Box/Pallet	Kg/Box	Kg/Pallet
25 x 25 mm Standard	1	144	144	9	1316

CODES												
FORMAT	G-301	G-302	G-303	G-304	G-305	G-306	G-307	G-308	G-309	G-310	G-311	G-312
25 x 25 mm PLOT	45029	45030	45031	45032	45033	45034	45035	45036	45037	45038	45039	45040

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VITREOUS LINING

Model: METAL-AIR *new*

MT-01

MT-02
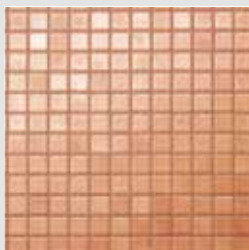
MT-03

Pressed and later cooked Vitreous mosaic.
Iridiscent effect. Metalic finished.
Developed and designed to resist chemical products, frost, stain and other hard weather conditions.

Due to its unalterability, easy clean and installation it is an optimum alternative to recover pools, wellness or outdoor-indoor decoration.

TECHNICAL CHARACTERISTICS			
UNE-EN ISO	10545-3:1997	Water absortion	< 0.1%
	EN-101:1991	Scratch resistence (Mohs)	5
UNE-ENV	12633:2003 Addendum A	Slip resistance (Pendulum)	17
UNE-EN ISO	10545-9:1997	Termical shock resistance	Resists
UNE-EN ISO	10545-12:1997	Frost resistance	Resists
UNE-EN ISO	10545-14:1998	Stain resistance	Class 5 (Hot water)
UNE-EN ISO	10545-13:1998	Chemical resistance	Class A resistance

OPTIONS				
NOMINAL FORMAT	THICKNESS	PAPER	PLOT	FIBER
25 x 25 mm	4.2 - 4.7 mm	-	Available	-

FINISHED	FIBER
FIBER: Sticked to the rear side of the mosaic plate. It will remain directly to the support.	

PACKAGING					
FORMAT	m²/Box	m²/Pallet	Box/Pallet	Kg/Box	Kg/Pallet
25 x 25 mm Standard	1	144	144	9	1316

CODES			
FORMAT	MT-01	MT-02	MT-03
25 x 25 mm FIBER	45110	45111	45112

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ASTRAL**POOL** △®

VITREOUS LINING

Model: MOON LUMINISCENT   *new*

Pressed and later cooked Vitreous mosaic.
Iridiscent effect. After being charged while lights are on, will emit smooth light.
Developed and designed to resist chemical products, frost, stain and other hard weather conditions.

Due to its unalterability, easy clean and installation it is an optimum alternative to recover pools, wellness or outdoor-indoor decoration.

TECHNICAL CHARACTERISTICS			
UNE-EN ISO	10545-3:1997	Water absortion	< 0.1%
	EN-101:1991	Scratch resistence (Mohs)	5
UNE-ENV	12633:2003 Addendum A	Slip resistance (Pendulum)	11
UNE-EN ISO	10545-9:1997	Termical shock resistance	Resists
UNE-EN ISO	10545-12:1997	Frost resistance	Resists
UNE-EN ISO	10545-14:1998	Stain resistance	Class 5 (Hot water)
UNE-EN ISO	10545-13:1998	Chemical resistance	Class A resistance

OPTIONS				
NOMINAL FORMAT	THICKNESS	PAPER	PLOT	FIBER
25 x 25 mm	4.2 - 4.7 mm	-	-	Available

FINISHED	FIBER
FIBER: Sticked to the rear side of the mosaic plate. It will remain directly to the support.	

PACKAGING					
FORMAT	m²/Box	m²/Pallet	Box/Pallet	Kg/Box	Kg/Pallet
25 x 25 mm Standard	1	144	144	9	1316

CODES		
FORMAT	LU-01	LU-02
25 x 25 mm FIBER	45113	45114

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ASTRALPOOL ®

VITREOUS LINING

Model: MATTE   *new*

Pressed and later cooked Vitreous mosaic. Matte finish.
Developed and designed to resist chemical products, frost, stain and other hard weather conditions.

Due to its unalterability, easy clean and installation it is an optimum alternative to recover pools, wellness or outdoor-indoor decoration.

TECHNICAL CHARACTERISTICS			
UNE-EN ISO	10545-3:1997	Water absortion	< 0.1%
	EN-101:1991	Scratch resistence (Mohs)	5
UNE-ENV	12633:2003 Addendum A	Slip resistance (Pendulum)	17
UNE-EN ISO	10545-9:1997	Termical shock resistance	Resists
UNE-EN ISO	10545-12:1997	Frost resistance	Resists
UNE-EN ISO	10545-14:1998	Stain resistance	Class 5 (Hot water)
UNE-EN ISO	10545-13:1998	Chemical resistance	Class A resistance

OPTIONS				
NOMINAL FORMAT	THICKNESS	PAPER	PLOT	FIBER
25 x 25 mm	4.2 - 4.7 mm	-	Available	-

FINISHED	PLOT
PLOT: Sticked to the rear side of the mosaic plate. It will remain directly to the support.	

PACKAGING					
FORMAT	m²/Box	m²/Pallet	Box/Pallet	Kg/Box	Kg/Pallet
25 x 25 mm Standard	1	144	144	9	1316

CODES									
FORMAT	M-01	M-02	M-03	M-04	M-05	M-06	M-07	M-08	M-09
25 x 25 mm PLOT	45115	45116	45117	45118	45119	45120	45121	45122	45123

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ASTRALPOOL

VITREOUS LINING

Model: COLOUR   *new*

Cut and coloured glass.
Developed and designed to resist chemical products, frost, stain and other hard weather conditions.

Due to its unalterability, easy clean and installation it is an optimum alternative to recover pools, wellness or outdoor-indoor decoration.
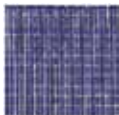
TECHNICAL CHARACTERISTICS			
UNE-EN ISO	10545-3:1997	Water absortion	< 0.1%
	EN-101:1991	Scratch resistence (Mohs)	4
UNE-ENV	12633:2003 Addendum A	Slip resistance (Pendulum)	15
UNE-EN ISO	10545-12:1997	Frost resistance	Resists
UNE-EN ISO	10545-14:1998	Stain resistance	Class 5 (Hot water)

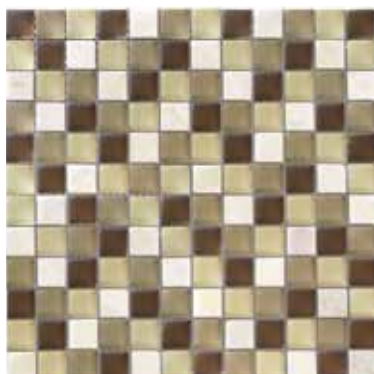| OPTIONS				
NOMINAL FORMAT	THICKNESS	PAPER	PLOT	FIBER
25 x 25 mm	5 mm	-	-	Available

FINISHED	FIBER
FIBER: Sticked to the rear side of the mosaic plate. It will remain directly to the support.	

PACKAGING					
FORMAT	m²/Box	m²/Pallet	Box/Pallet	Kg/Box	Kg/Pallet
25 x 25 mm Standard	1	99	99	11,5	1138.5

CODES									
FORMAT	PC-1001	PC-1007	PC-1011	PC-1013	PC-1015	PCMIX-2002	PCMIX-2004	PCMIX-2009	PCMIX-2012
25 x 25 mm PLOT	45063	45067	45070	45072	40821	45054	45056	45061	40823

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VITREOUS LINING

Model: STAR   new

Cut and coloured glass.
Developed and designed to resist chemical products, frost, stain and other hard weather conditions.

Due to its unalterability, easy clean and installation it is an optimum alternative to recover pools, wellness or outdoor-indoor decoration.

TECHNICAL CHARACTERISTICS			
UNE-EN ISO	10545-3:1997	Water absortion	< 0.1%
	EN-101:1991	Scratch resistence (Mohs)	4
UNE-ENV	12633:2003 Addendum A	Slip resistance (Pendulum)	15
UNE-EN ISO	10545-12:1997	Frost resistance	Resists
UNE-EN ISO	10545-14:1998	Stain resistance	Class 5 (Hot water)

OPTIONS				
NOMINAL FORMAT	THICKNESS	PAPER	PLOT	FIBER
25 x 25 mm	5 mm	-	-	Available

FINISHED	FIBER
FIBER: Sticked to the rear side of the mosaic plate. It will remain directly to the support.	

PACKAGING					
FORMAT	m²/Box	m²/Pallet	Box/Pallet	Kg/Box	Kg/Pallet
25 x 25 mm Standard	1	99	99	11,5	1138.5

CODES						
FORMAT	PC-3001	PC-3004	PC-3006	PC-3010	PSMIX-4001	PSMIX-4002
25 x 25 mm FIBER	45097	45100	45102	45106	45095	45096

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VITREOUS LINING

Model: MARBLE _new_
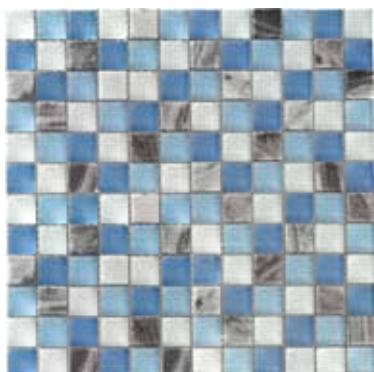
Cut and coloured glass, mixed up with marble.

Due to its unalterability, easy clean and installation it is an optimum alternative to recover pools, wellness or outdoor-indoor decoration.

TECHNICAL CHARACTERISTICS			
UNE-EN ISO	10545-3:1997	Water absortion	< 0.1%
	EN-101:1991	Scratch resistence (Mohs)	4
UNE-ENV	12633:2003 Addendum A	Slip resistance (Pendulum)	15

OPTIONS				
NOMINAL FORMAT	THICKNESS	PAPER	PLOT	FIBER
23 x 23 mm	8 mm	-	-	Available

FINISHED	FIBER
FIBER: Sticked to the rear side of the mosaic plate. It will remain directly to the support.	
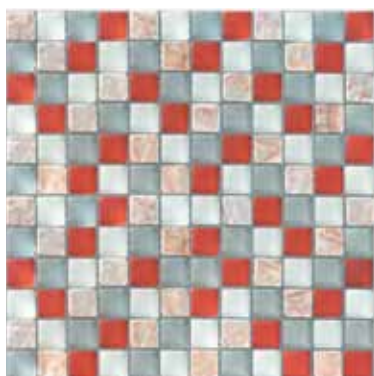
PACKAGING					
FORMAT	m²/Box	m²/Pallet	Box/Pallet	Kg/Box	Kg/Pallet
23 x 23 mm Standard	1	63	63	16	1008

CODES				
FORMAT	PCMIX-6001	PCMIX-6002	PCMIX-6007	PCMIX-6009
23 x 23 mm FIBER	45076	43626	45081	45083

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VITREOUS LINING

Model: FLASH - Digital decoration   *new*

Cut and coloured Glass, with **digital decoration**.

Any kind of digital graphic design can be done, keeping all the vitreous mosaic characteristics. High resolution pictures are requested, with a minimum of 2 MB per m².

Any custom made pictures available based on customers requirements.

Developed and designed to resist chemical products, frost, stain and other hard weather conditions.

Due to its unalterability, easy clean and installation it is an optimum alternative to recover pools, wellness or outdoor-indoor decoration.

FLASH
IMPRESSES CUSTOMISED

We customise your vitreous mosaic
with the photograph that you wish.
Minimum requirement 2 MB per m².
Check with your distributor.

TECHNICAL CHARACTERISTICS			
UNE-EN ISO	10545-3:1997	Water absortion	< 0.1%
	EN-101:1991	Scratch resistence (Mohs)	5
UNE-ENV	12633:2003 Addendum A	Slip resistance (Pendulum)	11
UNE-EN ISO	10545-9:1997	Termical shock resistance	Resists
UNE-EN ISO	10545-12:1997	Frost resistance	Resists
UNE-EN ISO	10545-14:1998	Stain resistance	Class 5 (Hot water)
UNE-EN ISO	10545-13:1998	Chemical resistance	Class A resistance

OPTIONS		
NOMINAL FORMAT	THICKNESS	
25 x 25 mm	4.2 - 4.7 mm	

FINISHED
TRANSPARENT FILM

PACKAGING					
FORMAT	m²/Box	m²/Pallet	Box/Pallet	Kg/Box	Kg/Pallet
25 x 25 mm Standard	2	144	72	18	131

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POOL LINING MATERIAL

ASTRALPOOL

VITREOUS LINING

Model: PATTERNED BORDERS   *new*

Pressed and later cooked vitreous mosaic.

Developed and designed to resist chemical products, frost, stain and other hard weather conditions.

Due to its unalterability, easy clean and installation it is an optimum alternative to recover pools, wellness or outdoor-indoor decoration.

NOTE
Patterned borders can be customised with the colours that you wish. **Check with your distributor.**

TECHNICAL CHARACTERISTICS

UNE-EN ISO	10545-3:1997	Water absortion	< 0.1%
	EN-101:1991	Scratch resistence (Mohs)	5
UNE-ENV	12633:2003 Addendum A	Slip resistance (Pendulum)	11
UNE-EN ISO	10545-9:1997	Termical shock resistance	Resists
UNE-EN ISO	10545-12:1997	Frost resistance	Resists
UNE-EN ISO	10545-14:1998	Stain resistance	Class 5 (Hot water)
UNE-EN ISO	10545-13:1998	Chemical resistance	Class A resistance

OPTIONS

NOMINAL FORMAT	THICKNESS
25 x 25 mm	4.2 - 4.7 mm

FINISHED / PAPER

FINISHED	PAPER
Once applied to wall, paper must be removed.	

PACKAGING

FORMAT	m²/Box	m²/Pallet	Box/Pallet	Kg/Box	Kg/Pallet
25 x 25 mm Standard	2	144	72	18	1316
25 x 25 mm Standard-45853	6	432	72	14	1008

CODES

25 x 25 mm	LENGTH X HEIGHT		
22164	300 x 180 mm		DARK BROWN / CREAM
45851	300 x 180 mm		ORANGE / DARK BLUE
45852	300 x 180 mm		WHITE / GREY-258 / VIOLET-270
16040	325 x 26 mm		POOL BLUE / DARK BLUE
45853	300 x 26 mm		YELLOW / ORANGE / VIOLET-270 / GREEN 271 / RED / BLACK
45854	300 x 75 mm		RED / WHITE / BLACK

We reserve the right to change all or part of the features of the articles or contents of this document, without prior notice.

VITREOUS LINING

Model: STANDARD MOSAIC DESIGNS   *new*

Pressed and later cooked vitreous mosaic.

Developed and designed to resist chemical products, frost, stain and other hard weather conditions.

Due to its unalterability, easy clean and installation it is an optimum alternative to recover pools, wellness or outdoor-indoor decoration.

TECHNICAL CHARACTERISTICS			
UNE-EN ISO	10545-3:1997	Water absortion	< 0.1%
	EN-101:1991	Scratch resistence (Mohs)	5
UNE-ENV	12633:2003 Addendum A	Slip resistance (Pendulum)	11
UNE-EN ISO	10545-9:1997	Termical shock resistance	Resists
UNE-EN ISO	10545-12:1997	Frost resistance	Resists
UNE-EN ISO	10545-14:1998	Stain resistance	Class 5 (Hot water)
UNE-EN ISO	10545-13:1998	Chemical resistance	Class A resistance

OPTIONS	
NOMINAL FORMAT	THICKNESS
25 x 25 mm	4.2 - 4.7 mm

FINISHED	PAPER
Once applied to wall, paper must be removed.	

PACKAGING					
FORMAT	m²/Box	m²/Pallet	Box/Pallet	Kg/Box	Kg/Pallet
25 x 25 mm Standard	Check with your distributor				
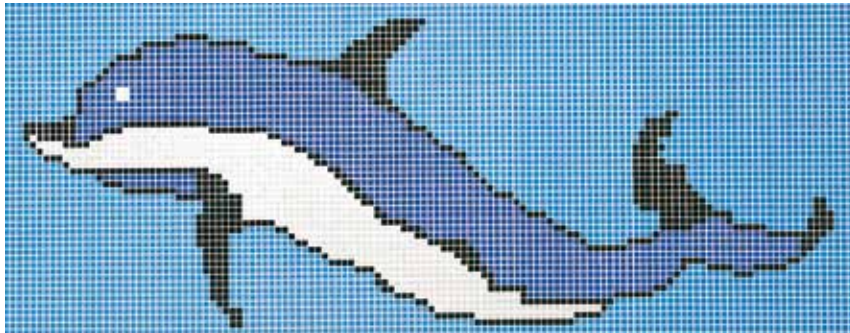
16043 - DOLPHIN 3330 x 1330 mm

45151 - SUN AND MOON 2000 x 2000 mm
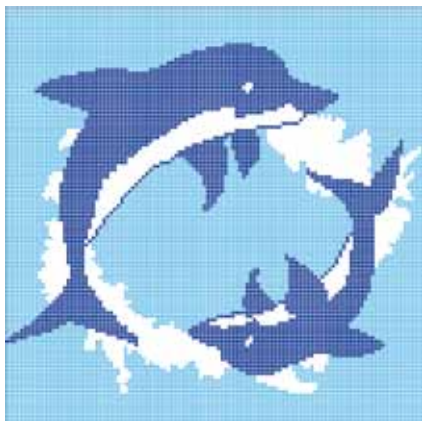
45152 - PLAYING DOLPHINS 3330 x 1330 mm
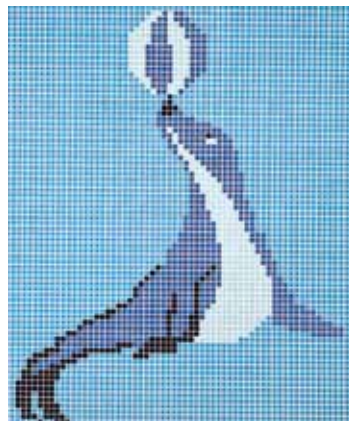
45159 - SEAL 2000 x 2670 mm
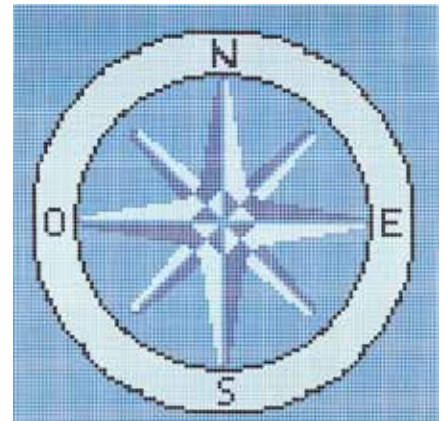
45160 - COMPASS ROSE 2670 x 2670 mm

We reserve the right to change all or part of the features of the articles or contents of this document, without prior notice.

PLASTIC RIGID RESIN TILES "PLAKIT"

342
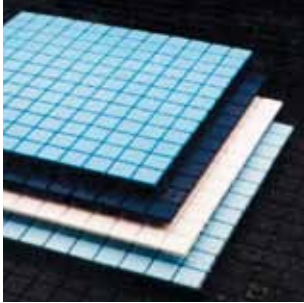
Plastic pool tiles

Plastic resin tiles, supplied in 330 mm x 330 mm sheets. Lightweight for transport. Highly flexible for easy application on curved surfaces. Easy to apply with time saving during the cladding process. The tile sheets are pushed with the hands into the water proof cement (white glue cement of 450 or 350 kp), and the excess is simply wiped off. Colour stabilised, resistant to UV light & frost. Also available in a range of patterns & tile bands. 90 sheets are required to cover 10 m² surface. Fast installation and very light for handling.

Colours:	Code	Standard Packing	Standard Weight kg.	Standard Volume m³
Porcelain White RAL 9003	**01427**	90	16.5	0.055
Light sky blue PANT 297-C	**01428**	90	16.5	0.055
Dark sky blue PANT 298-C	**01429**	90	16.5	0.055
Navy blue RAL 5033	**01430**	90	16.5	0.055

QUICK AND EASILY INSTALLED
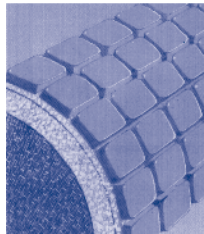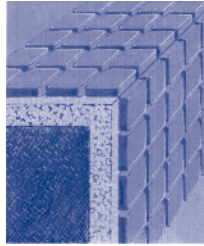
LIGHT WEIGHT
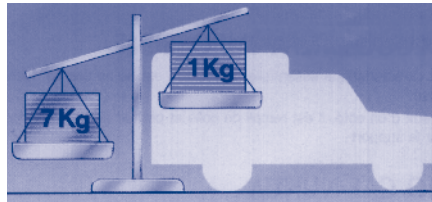
SAFER

STABLE
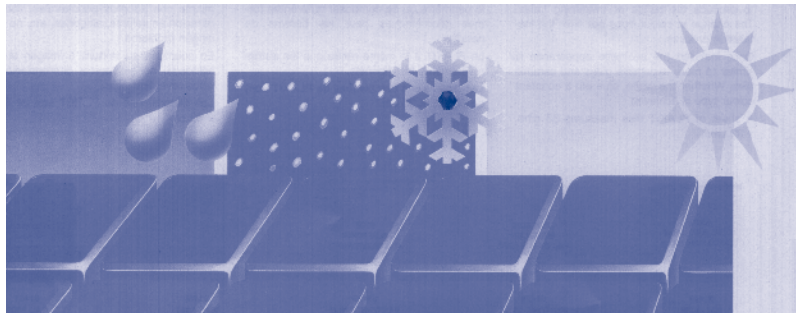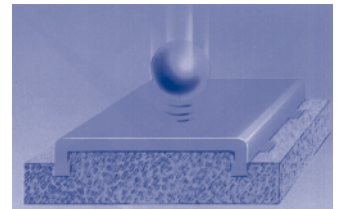
LINER 75/100°

Pool liner 75/100°

Ideal for residential pools. Manufactured in reinforced PVC-P, this material is the most used for lining pools thanks to enhanced malleability, resistance to tearing, ease of welding, resistance to discoloration by UV rays and with a wide range of available colours.

Made-to-measure liners are put together by high frequency welding machines at our facilities. Perfectly adaptable to any pool design or shape, with excellent watertight features, so you can forget about annoying leaks.

Liner characteristics:

- Manufactured in PVC. We use a fully recyclable polymer made from petroleum and sodium chloride.
- Chemical and mechanical properties are provided by additives that comply with international standards and the Manufacturer's Letter of Commitment. The use of cadmium compounds is currently forbidden and, in 2010, lead-based compounds will be forbidden.
- PVC does not release dioxins into the atmosphere and can be recycled by means of Lindell type degasification. Pool liner is normally reused for technical floor construction
- Resistant and watertight. AstralPool liner is manufactured from highly resistant PVC (0.75 mm thick) that ensures total watertightness for your pool.
- Smooth and pleasant to touch, it is easy to maintain and durable.
- Highly flexible and adaptable.
- Highly resistant to impacts and tearing.

Plain and printed colours for liner 75/100°
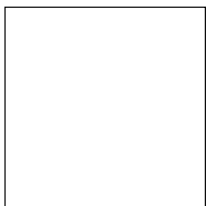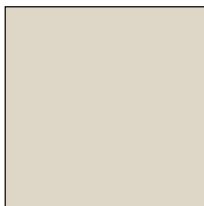
White	**Sand**	**Grey**	**Black**
Light blue	**Navy Blue**	**Caribbean Green**	
Servanne	**Mosaic**	**Byzantium blue**	**Byzantium green**
Blue Marble	**Green Marble**	**Sand Marble**	
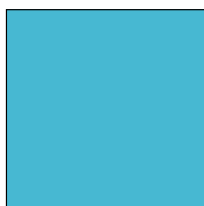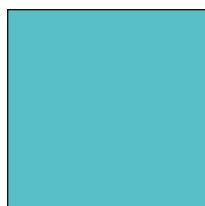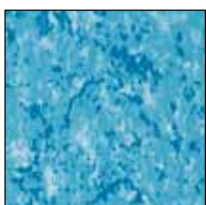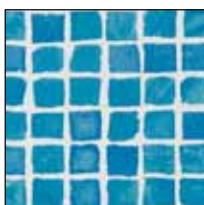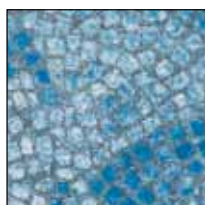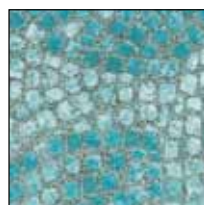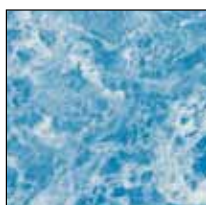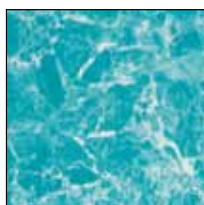
Note: Colours in the catalogue are approximate.

POOL LINING MATERIAL
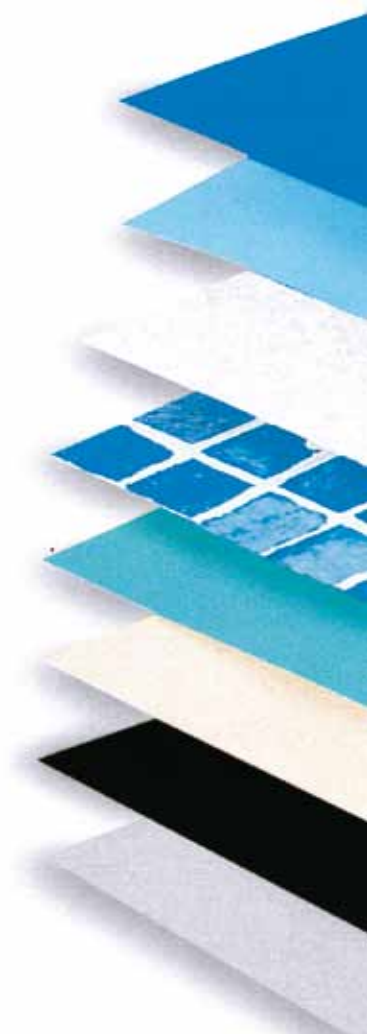
Note: Colours in the catalogue are approximate.

LINER 75/100°

Patterned borders 75/100° - Height 24 cm

Pompeii blue

Mykonos blue

Olympia blue

Pompeii green

Mykonos green

Olympia green

Cologne blue

Castile blue

Allegro blue

Cologne green

Castile green

Allegro green

Rocks
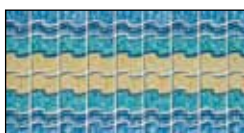
Boreal

Navalon blue

Florentine

Sebastian

Carthage blue
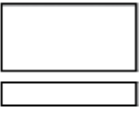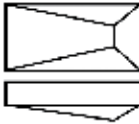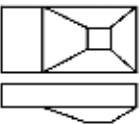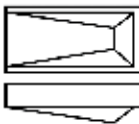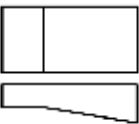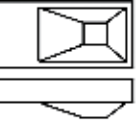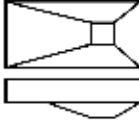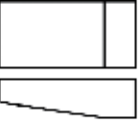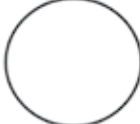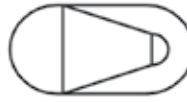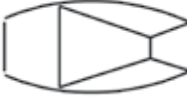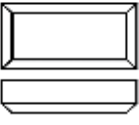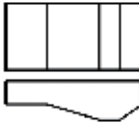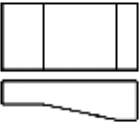
Carthage ocre
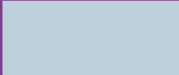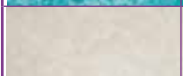
Carthage green

LINER CLASSIFICATION ACCORDING TO POOL

Standard pool liners

RECTANGULAR	ROUND	OVAL	OVOID SHAPED

Solid colour models		Code
	Light blue	**09278**
	France blue	**09277**
	Caribbean green	**09281**
	White	**09279**
	Sand	**16131**
	Black	**085300**
	Grey	**085302**

Printed colour models		Code
	Servanne	**26668**
	Mosaic	**09280**
	Blue Marble	**16132**
	Green Marble	**16132V**
	Sand Marble	**16132A**
	Byzantium blue	**26669**
	Byzantium green	**26670**

LINER CLASSIFICATION ACCORDING TO POOL

Non-standard pool liners

KIDNEY	LAZY	POLYGONAL	PARALLELOGRAM	TRAPEZIUM

Solid colour models		Code
	Light blue	**05810**
	France blue	**05809**
	Caribbean Green	**05813**
	White	**05811**
	Sand	**16137**
	Black	**089075**
	Grey	**089076**

| Printed colour models		Code
	Servanne	**26686**
	Mosaic	**05812**
	Blue Marble	**16138**
	Green Marble	**16138V**
	Sand Marble	**16138A**
	Byzantium blue	**26678**
	Byzantium green	**26679**

STANDARD LINER CALCULATION METHOD

RECTANGULAR SHAPE, FLAT FLOOR

Floor surface = length (L) x width (l)

Wall surface = (L + L + l + l) x wall height (h)

Total area = Floor surface + Wall surface

EXAMPLE:

10 x 5 m pool, with a vertical wall height = 1.5 m

Floor area = 10 x 5 = 50 m²

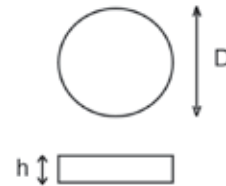Wall area = (10 + 10 + 5 + 5) x 1.50 = 45 m²

Total area = 50 + 45 = 95 m²
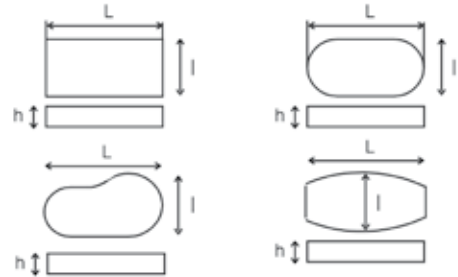
ROUND LINER POOL WITH FLAT FLOOR

Floor area = $\prod$ x D²/4   ($\prod$ = 3.14)

Wall area = diameter (D) x 3.14 x wall height (h)

Total area = Floor surface + Wall surface

EXAMPLE:

Diameter 6 m round with a wall height of 1.2 m

Floor area = $\prod$ x 6²/4 = 28.3 m²

Wall area = (6 x 3.14) x 1.20 = 22.60 m²

Total area = 28.3 + 22.60 = approx. 50.9 m²

For round pools with conic floor you can calculate as flan floors and applicate 1.30 coefficient.

RECTANGULAR SHAPE, PYRMIDAL FRUSTUM FLOOR

Floor area = length (L) x width (l) x 1.30

Wall area = (L + L + l + l) x height of the vertical wall. (h)

Total area = Floor surface + Wall surface

EXAMPLE:

10 x 5 m pool with a vertical wall height of 1.2 m

Floor area = 10 x 5 x 1.30 = 65 m²

Wall area = (10 + 10 + 5 + 5) x 1.20= 36 m²

Total area = 65 + 36 = 101 m²
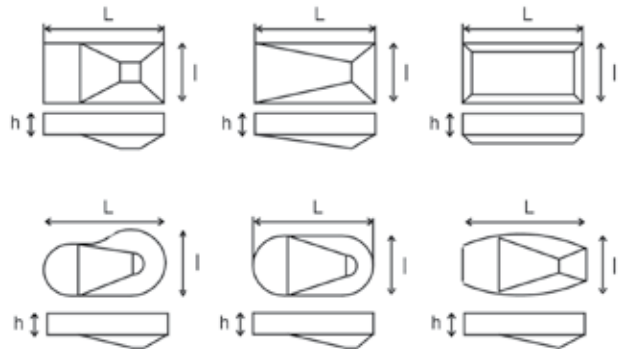
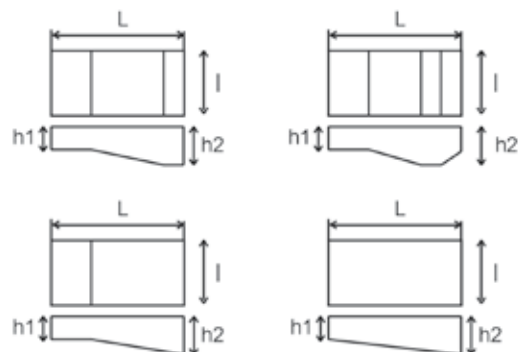### RECTANGULAR SHAPE, COMPOUND INCLINATION OR CONTINOUS INCLINATION

Floor surface = length (L) x width (l)

Wall surface = (L + L + l + l) x average height (h1 + h2):2

Total area = Floor surface + wall surface

EXAMPLE:

10 x 5 m pool, with a depth of 1.8 m at its deepest part

Floor area = 10 x 5 = 50 m²

Wall area = (10 + 10 + 5 + 5) x ((1.10 + 1.80):2) = 43.50 m²

Total area = 50 + 43.5 = aprox. 94 m²

STANDARD LINER CALCULATION METHOD

LAZY SHAPE

Floor area = Length (L1 + L2) x longer width (l1) x 1.30

(Do not multiply by 1.30 if the pool floor does not have a pyramid shape)

Wall shape = ((L1 + L2 + L3 + L4) + (l1 + l2)) xwall height (h)

(If the pool floor is inclined, multiply by the average height)

Total area = Floor area + wall shape
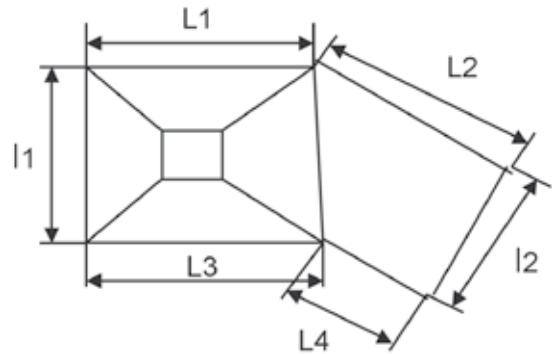
EXAMPLE:

Lazy pool with a pyramidal floor:

L1 = 5 m, L2 = 4 m, L3 = 4 m, L4 = 3 m

l1 and l2 = 4 m, h = 1.20 m,

Floor area = (5 + 4) x 4 x 1.30 = 46.80 m²

Wall shape = ((5 + 4 + 4 + 3) + (4 + 4)) x 1.20 = 28.80 m²

Total area = 46.80 + 28.80 = aprox. 76 m²

POLYGONAL SHAPE

Floor area = (length (L) x width (l) x 1.30) + (A x B)

(Do not multiply by 1.30 if the pool floor does not have a pyramid shape)

Wall shape = (L + L + l + l + B + A) x wall height (h)

(If the pool floor is inclined, multiply by the average height)

Total area = Floor surface + wall surface

EXAMPLE:

Polygonal shaped pool with a pyramidal floor:

Length = 10 m, width = 5 m, A = 3 m, B = 1.5 m, wall height = 1.10 m

Pool floor area = (10 x 5 x 1.30) + (3 x 1.50) = 69.50 m²

Superficie de pared = (10 +10 + 5 + 5 + 1.50 + 1.50) x 1.10 = 36.30 m²

Total area = 69.50 + 36.30 = aprox. 106 m²
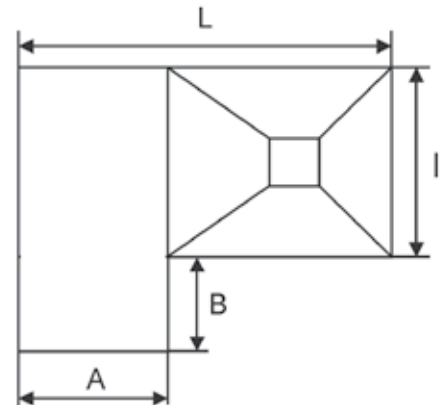
STAIRS ALONG THE ENTIRE POOL WIDTH

The stairs should not be taken into account for calculating the liner m²

Add the steps depth for the entire pool side. (see sketch)

LINER CLASSIFICATION ACCORDING TO POOL

Liners free form pools

Liner models for all kinds of pool shapes requiring triangulation for size calculation.

Solid colours models		Code
	Light blue	**16147**
	Caribbean green	**16149**
	White	16150
	Sand	**16151**
	Grey	**089090**

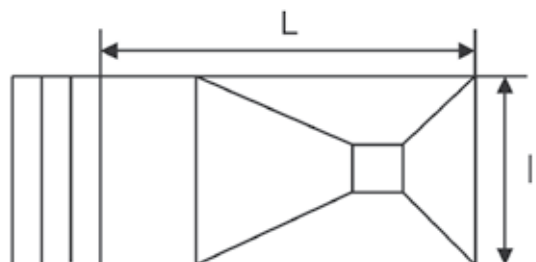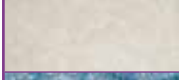| Printed colours models		Code
	Mosaic	**16155**
	Blue Marble	**16152**
	Green Marble	**16152V**
	Sand Marble	**16152A**
	Byzantium blue	**26689**
	Byzantium green	**26690**

Decoration with patterned borders

	Code	Standard Packing	Standard Weight kg.	Standard Volume m³
For free shape	**16162**	-	-	-

Pool triangulation

Triangulation is the only reliable way to calculate pool dimensions, regardless of shape. Below we explain the steps to follow in order to obtain exact measurements and pool shape.
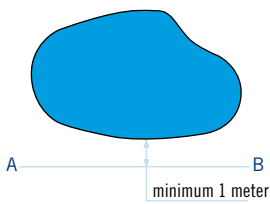
Imagine a straight line alongside the pool. Mark the ends point A and point B. The straight line must be at least one meter from the pool.
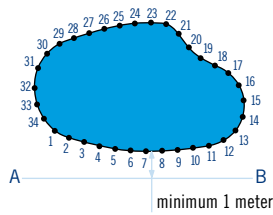
Space the distance indicators every 50 cm and number them as follows: 1, 2, 3, etc. until the entire edge of the pool has been covered.
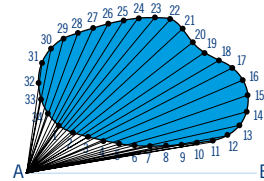
Starting at point A, measure the distance in a straight line from each point marked by a number (e.g. distance from A to 1, from A to 2 and so on).
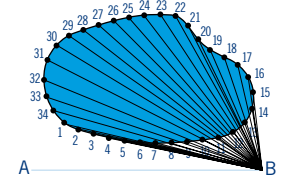
Do as before from point B.
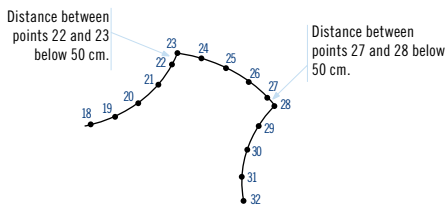
If the pool is not completely round and forms right angles, it is essential you add a point (See example drawing).
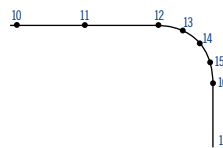
When the curves are small, the distance between the points must be reduced so that a minimum of 3 points per arc of circle is obtained.
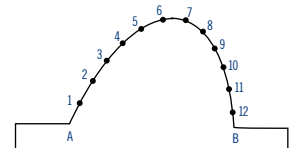
To measure non-geometric steps, place A and B at the base of the steps and proceed as for the triangulation of a free form pool.

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LINERS FOR STEPS

For steps that do not fit the Standard models shown here, request quote.

Below we provide you with the details of the shapes and models you can choose from plain or printed liners to ensure you select the correct liner for your pool steps. Steps that are fitted along the breadth of the basin are invoiced in accordance with the standard model RECTA, as long as the width does not exceed 4 meters. **Attention:** the size of the basin should not include the depth of the steps.

Standard steps

Even depth of steps

Even steps

Right angles

Even riser height (only the base riser may be different in height)

Non Standard steps

Uneven step depth

Riser height is uneven

Sloping steps

Round angle
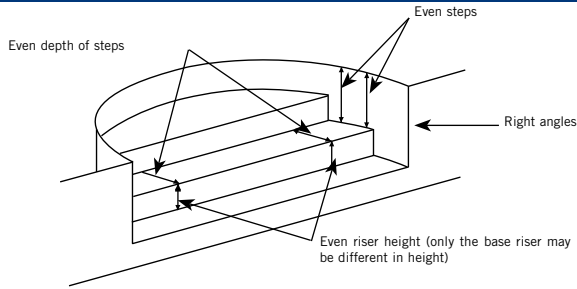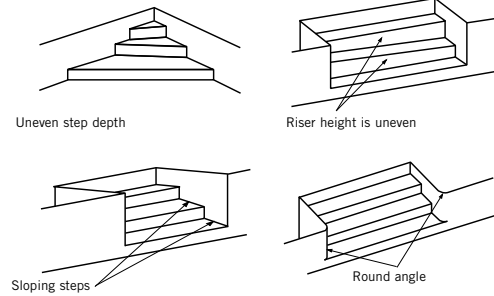
Steps		Plain Liner	Plain Liner + Bands	Diagram
Shape	Widths	Code	Code	
Straight	0 to 2 meters	05789	05789B	
	3 to 4 meters	05791	05791B	
Roman	0 to 2 meters	16163	16163B	
	2 to 3 meters	25868	25868B	
	3 to 4 meters	05800	05800B	
Right angle	0 to 2 meters	05803	05803B	
	2 to 3 meters	05804	05804B	
1/4 Circle	0 to 2 meters	16167	16167B	
	2 to 3 meters	089443	089443B	

| Steps		Printed Liner	Printed Liner + Bands	Diagram
Shape	Widths	Code	Code	
Straight	0 to 2 meters	05794	05794B	
	2 to 3 meters	05795	05795B	
	3 to 4 meters	05796	05796B	
Roman	0 to 2 meters	16169	16169B	
	2 to 3 meters	05801	05801B	
	3 to 4 meters	05802	05802B	
Right angle	0 to 2 meters	05806	05806B	
	2 to 3 meters	05807	05807B	
1/4 Circle	0 to 2 meters	16173	16173B	
	2 to 3 meters	089446	089446B	

PVC REINFORCED 150/100° LINER

Note: Colours in the catalogue are approximate.

Liner 150/100°

Liner 150/100 (1.5 mm thick) is made of two PVC films laminated together and reinforced with fibreglass. This makes it particularly suited for public pools or other commercial applications.

In the case of liner 150/100, it is not supplied welded ready for installation in the pool. It comes in 1.65 m wide x 25.2 m rolls and must be welded on site by a skilled technician.

Liner specifications:

• Ideal for replacing pool lining because of easy installation and low cost in comparison with replacing tiles or standard cladding.

• Ensures total watertightness in odd shaped pools or pools with numerous steps.

• Compatible with concrete, prefabricated or steel panel pools. Can also be installed in pools with overflow.
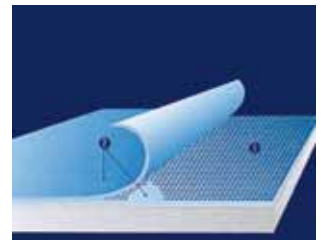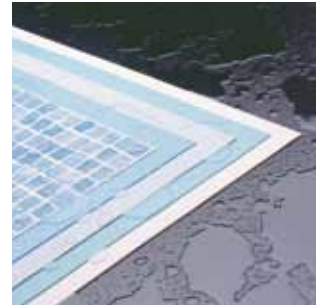
1.-Inner frame of polyester weft
2.- Highly resistant PVC

Range of colours for liner 150/100°
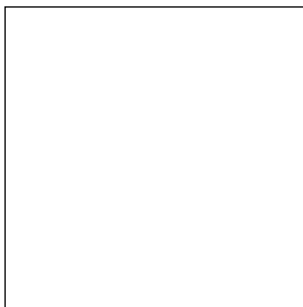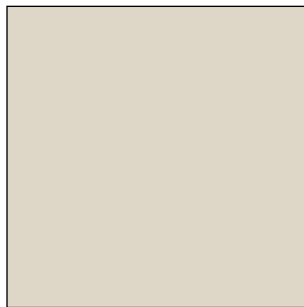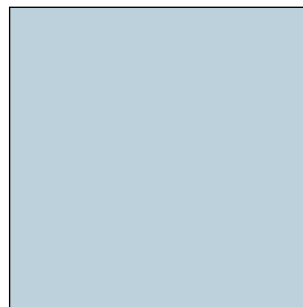
White **Sand** **Light blue** **Navy blue**
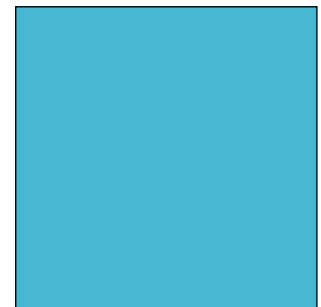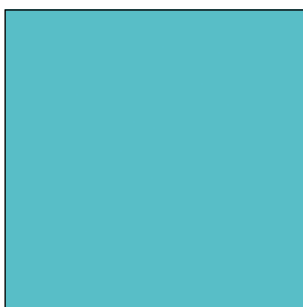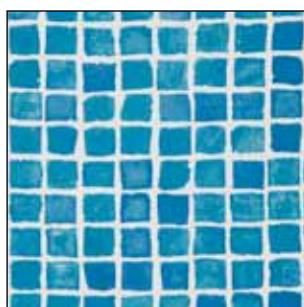
Caribbean green **Mosaic** **Servanne** **Marble**
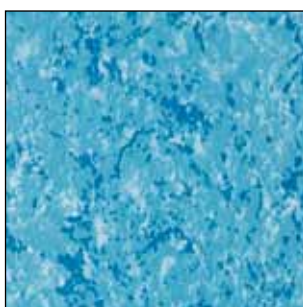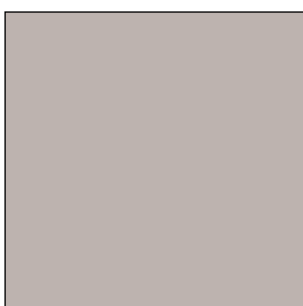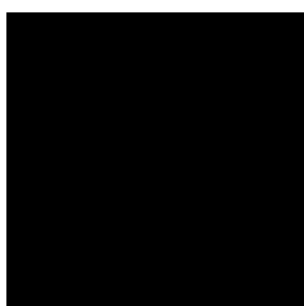
Pearl grey **Black**

PVC REINFORCED 150/100° LINER

Liner 150/100°

Model	Measure		
	1.40 x 25,2 m	1.65 x 25.2 m	2.05 x 25.2 m
Navy blue	12163	12168	17019
Light blue	12162	12161	17020
White	-	12144	-
Caribbean green	12141	12140	-
Sand	-	19062	-
Mosaic	-	12165	-
Pearl Grey	-	23596	-
Marble	-	23598	-
Black	-	12231	-
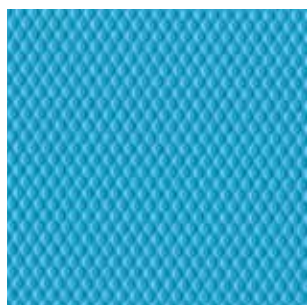
Non-slip vinyl liner

Non-slip finish

Model	Measure	Code
Navy blue		12175
Light blue		12178
White	1.65 x 25.2 m	23599
Caribbean green		12176
Sand		19726
Pearl Grey		23597

PVC liquid

1 litre container.

	Code	Standard Packing	Standard Weight kg.	Standard Volume m³
Pearl grey colour	23600	1	1	0.001
Sand colour	19727	1	1	0.001
White colour	15254	1	1	0.001
Navy blue colour	12284	1	1	0.001
Light blue colour	12287	1	1	0.001
Green colour	12285	1	1	0.001
Neutral colour	23601	1	1	0.001

PVC REINFORCED 150/100° LINER

Technical features of reinforced liner 150/100°

Description: Flexible PVC reinforced with fibreglass liner. 1.5 mm thick.

TEST	Standards	STANDARD VALUE	SPECIFICATIONS
Thickness (mm)	UNE 53.221	1.5	1.5 ± 10%
Width (mm)	UNE 53.221	NOM ± 1%	NOM±1%
Tensile strength (MPa)	UNE 53.165	L. = 18, T = 16	L. T ≥ 15
Breaking elongation (%)	UNE 53.165	350	L. T ≥ 200
Tear resistance (N)	UNE 53.358	L = 90 T = 80	L ≥ 60 T ≥ 50
Adhesion between surfaces (N/50 mm)	UNE 53.358	L, T = 100	L, T ≥ 80
Performance to heat (%)	UNE 53.358	L. = -1.5, T = +0.5	≤ 3
Bending at low temperatures	UNE 53.358	Without cracks	Without cracks
Mechanical resist to percussion (mm)	UNE 53.358	600	≥ 500
Thermic ageing (%)	UNE 53.358	By weight = 1.2 By elongation = 10	By weight ≤ 2 By elongation ≤ 30
Plastic migration (%)	UNE 53.095	1.3	≤ 5
Water transmission resistance coefficient	UNE 57.114	13,000	≤ 30,000
Fire resistance	UNE 53.127	Self extinguishable	Self extinguishable

LINERS: OTHERS QUALITIES

Grey liner - Thicknes 120/100°

Potable quality.

	Code	Standard Packing	Standard Weight kg.	Standard Volume m³
Grey liner. Dimensions: 20 m x 2 m	**25751**	-	-	-

Supplied in rolls.

LINER INSTALLATION AND FIXING

Liner installation

Before laying the liner in the pool, we must bear in mind certain basic factors to ensure good and long lasting life. The floor or surface where the liner is to be laid:

- Must be permeable to ensure removal of condensed water.
- Must be completely smooth to prevent deterioration.
- Must also be free from any material that is incompatible with the membrane: for flexible PVC, avoid using rubber, paint, inks, tar or adhesive materials.
- Must be clean and dry.
- If a separating layer has been used, it must be rot-proof (protection filter).
- Only use bonding products recommended by AstralPool.
- PVC liners have an expansion coefficient of around 0.2% per 10ºC. You are recommended to lay the liner at temperatures between 10ºC and 25ºC.

Fastening system

HUNG TYPE FASTENING

OVERLAP TYPE FASTENING **V TYPE FASTENING**

The fastening system varies depending on whether the liner is to be laid in a pool already built or one yet to be built.
In both cases the fastening is compatible for **liners of 75/100 and 150/100.**

These are the simplest fastening systems and they have basically been designed for above ground pools steel sheet for home use, requiring a **75/100 liner.** Quick and easy to install, these systems are ideal for liner installation in pools.

LINER FIXING MODIFICATION

If the standard Hung system is substitued by the Overlap or "V" type, neither the calculations nor the price of the liner m^2 will vary with respect to the standard calculations.

ASTRALPOOL®

LINER ACCESSORIES

Fastening accessories for liners 75/100° for pools under construction

	Code	Standard Packing	Standard Weight kg.	Standard Volume m³
Horizontal Hung PVC 1.5 m x 50 mm (free form)	**40844**	-	-	-
Horizontal hung PVC 2 m x 50 mm	**05815**	-	-	-
Horizontal hung PVC 2 m x 38 mm	**09492**	-	-	-
Angle PVC radius of 15 cm x 50 mm	**05819**	-	-	-
Angle PVC radius of 15 cm x 38 mm	**09493**	-	-	-
In Aluminium				
Horizontal hung ALU 2 m x 50 mm	**05816**	-	-	-
ALU angle 50 mm (radius of 15 cm)	**05818**	-	-	-
Fastening rivets (Box of 250 units)	**05820**	-	-	-
Flexible fastening strip. Lineal metre	**05825**	-	-	-

Fastening accessories for liners 75/100° for pool renovation

	Code	Standard Packing	Standard Weight kg.	Standard Volume m³
Vertical hung PVC 2 m	**05817**	-	-	-
Angle for vertical fastening (radius 15 cm)	**16194**	-	-	-
In Aluminium				
Vertical hung ALU 2 m	**16175**	-	-	-
Fastening rivets (Box of 250 units)	**05820**	-	-	-
Flexible fastening strip. Lineal metre	**05825**	-	-	-

05819

05816

05815

40844

05817   16175

05820

05825

355

LINER ACCESSORIES

Accessories for liners 150/100°

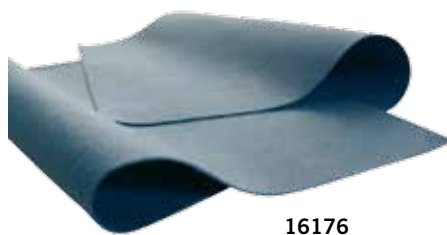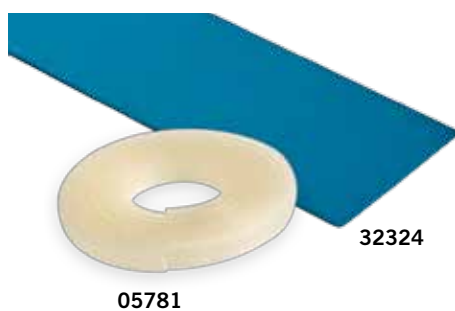|	Code	Standard Packing	Standard Weight kg.	Standard Volume m³
Galvanized plate band (2 x 0.05 m)	**32324**	-	-	-
Applicator bottle (unit)	**05780**	-	-	-
Band (8 mm)	**05781**	-	-	-
Solvent THF (1 litre)	**05778**	-	-	-
Solvent THF (5 litres)	**05779**	-	-	-
Neoprene glue for PVC (5 Kg)	**05784**	-	-	-

Note: In the event of assembling a liner 150/100° by hung type fastening with an 8 mm strip, the accessories are the same as for liners 75/100° (see previous page).

Adhesives for all types of liners

	Code	Standard Packing	Standard Weight kg.	Standard Volume m³
Adhesive for antibacterial protection (Tin 5 Kg)	**05822**	-	-	-
Komerling adhesive 1220 (Tube 125 ml)	**06655**	-	-	-
Komerling adhesive 1220 (Tin 750 ml)	**06656**	-	-	-

Liner protection for 75/100° and 150/100°

	Code	Standard Packing	Standard Weight kg.	Standard Volume m³
Protection 300 gr/m² AB blue (roll 100 m²)	**16176**	-	-	-

32324

05781

05778 06656 05822 05780 06655

16176

LINER ACCESSORIES

Rivets

Aluminum rivets.

Code	Standard Packing	Standard Weight kg.	Standard Volume m³
12264	4	8.85	0.01
12265	3	8.0	0.01

Short 15.5 - 4.5 mm
Long 25.5 - 4.5 mm

Double PVC hem

Welded to the edge of the liner, allows the liner to attach to the pool shell, by using the corresponding profile.

Code	Standard Packing	Standard Weight kg.	Standard Volume m³
12184	250 m	9.0	0.036

Dissolvent

Dissolvent for welding the lining in cold.

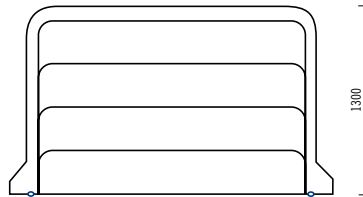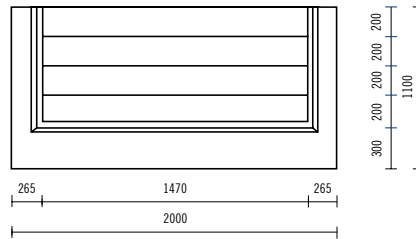| Code	Standard Packing	Standard Weight kg.	Standard Volume m³
12249	1	1.0	0.01

STEPS UNITS

Straight 2 m model

Standard light blue, in material that resists ageing, UV rays and Chlorine agressions.

Code	Standard Packing	Standard Weight kg.	Standard Volume m³
25866	1	-	-

Code 25866

Roman end 2.00 m

Standard light blue, in Polymer.

2.00 x 0.85 x 1.25 m

Code	Standard Packing	Standard Weight kg.	Standard Volume m³
28327	1	-	-

Code 28327
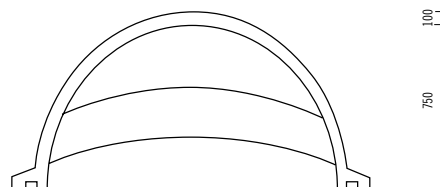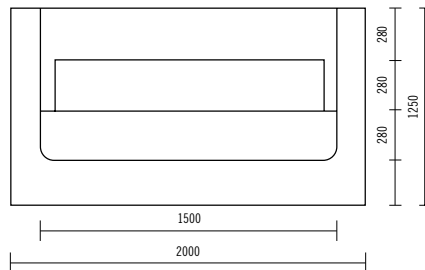
ROMAN STEPS

Roman end 2.44 m

Standard light blue, in Polymer.

Code	Standard Packing	Standard Weight kg.	Standard Volume m³
2.44 x 1.25 x 1.20 m	**05700**	1	-	-
2.44 x 0.96 x 1.20 m	**27126**	1	-	-

Code 05700

225 225 225 225 225 300 1200 220 2000 220 2440 100 1000

Code 27126
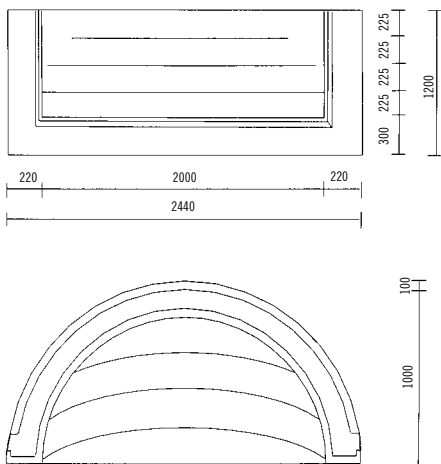
270 270 270 270 390 1250 235 1970 235 2440 100 960 r=986
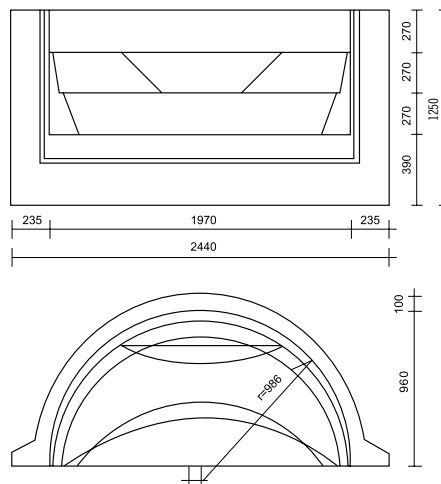
Roman end 3.00 m

Standard light blue, in Polymer.

Code	Standard Packing	Standard Weight kg.	Standard Volume m³
3.00 x 1.50 x 1.20 m	**05799**	1	-	-
3.00 x 1.32 x 1.35 m	**27127**	1	-	-
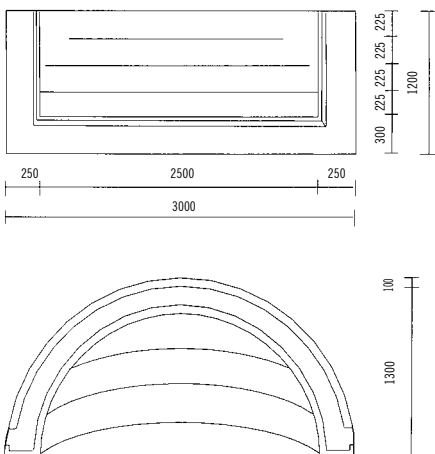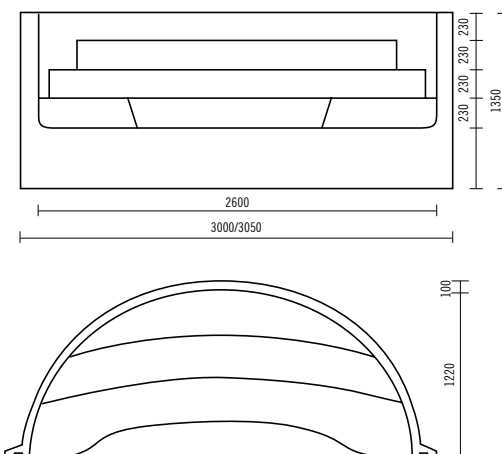
Other models and colours, on request

Code 05799

225 225 225 225 225 300 1200 250 2500 250 3000 100 1300

Code 27127

230 230 230 230 230 1350 2600 3000/3050 100 1220

CONDITIONS FOR ACCEPTING AN ORDER

Order:

All orders or enquiries for modifying orders must be made in writing. For avoiding any delay, the client, at his own risk, must forward the supplier all the necessary liner measurements for executing the work. In case the information supplied by the client is insufficient, he will have to supply the missing information ahead of the manufacturing time.

Implicit data:

In cases certain informattion is not supplied in time, we shall consider the below mentioned data for the liner manufacture:
* Vertical radii:15 cm
* Horizontal radii: max. 5 cm (only in pool basin). Holdingsystem, Hung system.
* Horizontal measurements taken on the basin floor.
* The depth measurement taken from under the coping stone till the wall touching the floor.
* The diagonals will be measured from the corner angles and not along the curves.

To avoid certain misunderstandings, we suggest you taking the following precautions:

For holding the liner:
* Specify the type (Hung, Overlap or in V); We leave 15 cm of extra liner length in height for the Overlap holding system.

For steps:
* Check whether the angles between the step tread and rise (flat and vertical step surfaces) are really found in a straight line.
* Installation of a discharge nozzle in the middle of the first step is highly recommended for holding the liner in place.
* At least 30 cm of water should be left in the pool for maintaining the first step.
* Avoid designing staircases having more than 5 steps.
* For confirming dimensions, give the lengths of each step.
* Check the verticality of pool walls. In case of deficient plumbness, enquire about the order viability.
* Compound inclination safety ledges should be avoided on the liner.

Taking measurements:

* Give the total length and width.
* Pool depths.
* Safety ledge width on each side.
* Specify the peripheral size on each side.
* Measurements of each corner, edge and inclination.
* All dimensions should be indicated with horizontal and/or vertical measurements.

If angles are not straight:

* Measure all the diagonals from one point.
* Diagonals (hypotenuse) of right angles are not necessary, only the irregular angles other than the 90°.
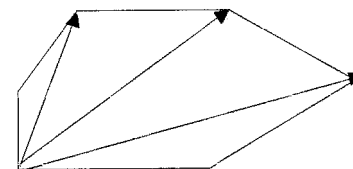
Definition of arcs of circles:

* Arcs of circles are defined by their radii.
* If a radius cannot be defined, a radius gauge should be supplied or a triangulation to define it.
* Ellipses are defined by gauges (or grid drawing with approximate 1 meter intervals)

Sectional views:

* Three view plans should be submitted: top view, front view and lateral view.
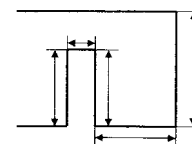
Full size pattern:

* Define the pattern, one side sky and the other side water (or a plan).
* The patterns are for the pool basin dimensions or for the covers.

Shuttering:

* Specify shuttering dimensions according to the drawings.
* Check that inside shuttering angles are in a straight line.
* Check that vertical pool basin angles shuttering are in a straight line.
* Check that the horizontal angle of the wall and shuttering are in a straight line.