9th edition
April 28, 2012

CLOUDHONROCK®

Patented

STONE-HONEYCOMB

STONE-GLASS

patented

1+1=1®

FABYCOMB

STONE + HONEYCOMB IN ONE SHOT !

GLASS-STONE-GLASS

patent pending

Patented

FABYACHTS®

LIGHTWEIGHT & WATERPROOF MARBLE

SPIDERWEBHONROCK®

GLASS-CLOTH-GLASS

MO.PO.FUL.GLASS®

patented

GLASS-PHOTO-GLASS

SHATTERPROOF STONE®

Patented

MADE IN ITALY

It is not the strongest of the species that survive,
nor the most intelligent,
but the one most responsive to change.

PROCESS®

DAZZI VINICIO

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Commercio Lavorazione Marmi e Graniti
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C.F. DZZVNC48C02G628L - p.IVA 00282250463
C.C.I.A.A. Lucca n. 87618 - Albo Imp. Art. di Lucca n. 24684

EXCLUSIVE OF NEW TECHNOLOGIES

- *LAMINATION STRATIFICATION DECORATIVE MATERIALS*
- *RESEARCH LABORATORY*
- *MADE IN ITALY*

FFPROCESS®
www.ffprocess.com

stone honeycomb glass light wood cloth photo picture birdwing aluben

DAZZI VINICIO is an old artisan company, work in the stone industry since 40 years and over the last 10 years is deeply specialized in the lamination of decorative materials.
The company covers a 500 m² area with infrastructures and equipment specifically designed for the production of new products covered by the exclusive FFPROCESS® trade mark.

FFPROCESS® products are stratified composite panels to be used for various types of coverings in construction industry such as exterior claddings as well as in interior outfitting both for civil and marine constructions.
FFPROCESS® technology brings together various strata, each of them having a different function in the final product, such as decorative finish, structural strength and stiffness, thermal and acoustic insulation and so on (marble, glass, aluminum honeycomb, poly-isocyanurate foam, various types of fibers and fabrics, etc...).
The performance is the result of an endless continuous research for the most qualified primary products to be adopted, all made in EEC or in USA, as well as for the optimum conditions of the process required to achieve a top quality.
In process product quality is monitored constantly through FFPROCESS®-FPC (Factory Production Control) undergoing laboratory as well as in-house checks and tests.

FFPROCESS® products:

- FABYCOMB® _ *Patented*
- FABYACHTS® _ *Patented*
- CLOUDHONROCK® _ *Patented*
- SPIDERWEBHONROCK®
- SHATTERPROOFSTONE® _ *Patented*
- LIGHTWEIGHT STONE GLASS® _ *Patent Pending*
- MO.PO.FUL.GLASS® _ *Patented*
- STONE-GLASS
- GLASS-STONE-GLASS
- GLASS-CLOTH-GLASS
- GLASS-PHOTO-GLASS

patented

1+1=1®

FABYCOMB

STONE + HONEYCOMB IN ONE SHOT !

www.fabycomb.com

FABYCOMB® *(International Patents)* : it is to be emphasized that the fabrication of laminated honeycomb panels is done simultaneously to the lamination to thin stone slabs in the stratification and reinforcement process.
Generally in the construction and furnishing industry, and particularly in marine applications like on luxury yachting, the target is to lighten and to strengthen, or to give some other valuable mechanical or physical characteristics to decorative stones, used as floor and wall coverings.
Old solutions currently proposed on the market have limited resistance and limited durability, so that FABYCOMB® aims to overcome such limits proposing a reinforced stratified panel in which all components (stone, fiberglass fabric, honeycomb aluminum core and structural resin) are laminated each other in a single industrial process.

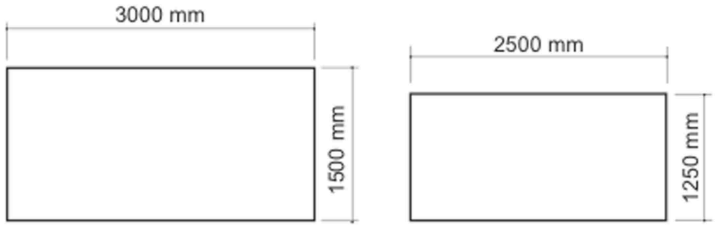
FABYCOMB® patented paneling is a lightweight product made by an assembly of stone, micro porous fiberglass skins and a micro-perforated aluminum honeycomb core.
The strategy of the company researching and developing continually new cladding products resulted in the creation of our FABYCOMB® paneling system which we believe brings to the construction market a technologically high quality and architecturally pleasing product, with excellent physical/mechanical performance on external façade claddings.

The main features of this product can be summarized as follows:

- Ultra light weight with high tensile and flexural strength, making the panel unsurpassable in its mechanical performance;
- The technical specification of the panel allows to use it directly onto steel frame structures without the need of external insulation systems, thus providing an extremely competitive solution for this type of elements;
- The FABYCOMB® paneling system can be utilized also on timber frame structural systems to provide a fast and economic building solution;
- Suitable to be used as a rain screen system on both existing and new structural elements.
- Increased resistance to shear and flexural stresses;
- Excellent dimensional stability;
- Excellent resistance to compression;
- Light weight;
- Resistance to atmospheric agents;
- Stable to temperature range -40°C to +90°C

Honeycomb core's properties					
Type	**ALUMINIUM ALLOY 3000**				
Thickness mm	from 3 to 300 standard tolerance ± 0,10 mm tolerance on request ± 0,05 mm				
Effective temperature range °C	from - 50 to + 175				
Cell size mm	Ø 3,2	Ø 6	Ø 9	Ø 12	Ø 19
Density kg/m^3	96 ÷ 128	54 ÷ 80	40 ÷ 53	29 ÷ 40	20 ÷ 27
Compressive stabilized MPa	6,5 ÷ 9,7	3,2 ÷ 5,0	1,6 ÷ 3,0	0,8 ÷ 1,6	0,3 ÷ 0,6

Standard dimensions
(other dimensions available on request)



Skins

The covering "skins" are made by a double fabric of bidirectional fiber glass, total weight in a range of 300-500 gr/m^2, which the thin stone material is applied on, normal thickness of stone down to about 3-4 mm.

BEWARE OF IMITATIONS !!

Examples of FABYCOMB® panels

Examples of two slabs of FABYCOMB® lightweight marble of 3 sqm. each;
mm 2500 x 1220 x 20 (photo right)
mm 3000 x 1000 x 20 (photo below)
weight 577 N each

Lifted by hand!
The installation
will turn out easy
fast and cheap.

FACTORY PRODUCTION CONTROL
Monoaxial Traction

1st REPORT TEST at pag 8 (215 NOT) is resistance measurement of monoaxial traction of lightweight marble currently produced and offered on the market:
Average value = 0,70 MPa
Minimum expected value = 0,20 MPa

2nd REPORT TEST at pag 9 (215 FFPROCESS®) is resistance measurement of monoaxial traction of lightweight marble FABYCOMB®:
Average value = 1,32 MPa (almost double than lightweight marble currently produced and offered on the market)
Minimum expected value = 0,79 MPa (almost four times higher than lightweight marble currently produced and offered on the market)

FACTORY PRODUCTION CONTROL
Monoaxial Traction

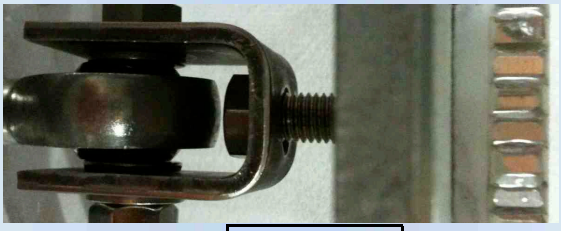
TEST Nr	DATE
215 NOT	1 novembre 2010

MATERIAL	Type of production process	CONDITIONING
20Honeycomb+10Crema Luna	None	Natural condition, post: reduced Crema Luna thickness from 12mm to 8 mm + honed Crema Luna + cutted

LOADING DIRECTION

Axial

Equipment used for the mono-axial traction



Example of a specimen after the test

Luce [mm] 1

Specimen No	Length [mm]	Width [mm]	Modulo di resistenza	Breaking Load [N]	Traction stress [MPa]	Note
1	40,00	40,00	1600,00	720,00	0,45	
2	40,00	40,00	1600,00	2200,00	1,38	
3	40,00	40,00	1600,00	1100,00	0,69	
4	40,00	40,00	1600,00	660,00	0,41	
5	40,00	40,00	1600,00	940,00	0,59	
6						
7						
8						
9						
10						
			Average value	**1124,00**	**0,70**	
			Minimum expected value	**313,39**	**0,20**	

NOTE

Test Report
215 NOT

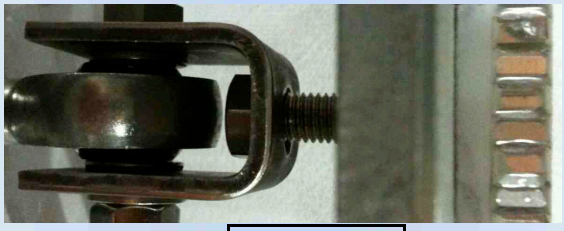
Production date: 215-2010 (August 03, 2010)
Test date: November 01, 2010

*Stratification made by **NOT** FFPROCESS® production*

*This Test **215 NOT** must to be compared with following Test **215 FFPROCESS®***

	FACTORY PRODUCTION CONTROL Monoaxial Traction	TEST Nr	DATE
		215 FFPROCESS®	1 novembre 2010

1+1=1 patented FABYCOMB STONE + HONEYCOMB IN ONE SHOT	MATERIAL	TYPE OF PRODUCTION PROCESS	CONDITIONING
	20+10Crema Luna_cell6_0°-90°-500gr/mq	FFPROCESS®	Natural condition, post: reduced Crema Luna thickness from 12mm to 8 mm + honed Crema Luna + cutted

LOADING DIRECTION	Equipment used for the mono-axial traction	Example of a specimen after the test
Axial		

Luce [mm] 1

Specimen No	Length [mm]	Width [mm]	Modulo di resistenza	Breaking Load [N]	Traction stress [MPa]	Note
1	40,00	40,00	1600,00	2320,00	1,45	
2	40,00	40,00	1600,00	2740,00	1,71	
3	40,00	40,00	1600,00	1630,00	1,02	
4	40,00	40,00	1600,00	1970,00	1,23	
5	40,00	40,00	1600,00	1870,00	1,17	
6						
7						
8						
9						
10						
			Average value	**2106,00**	**1,32**	
			Minimum expected value	**1263,77**	**0,79**	

NOTE

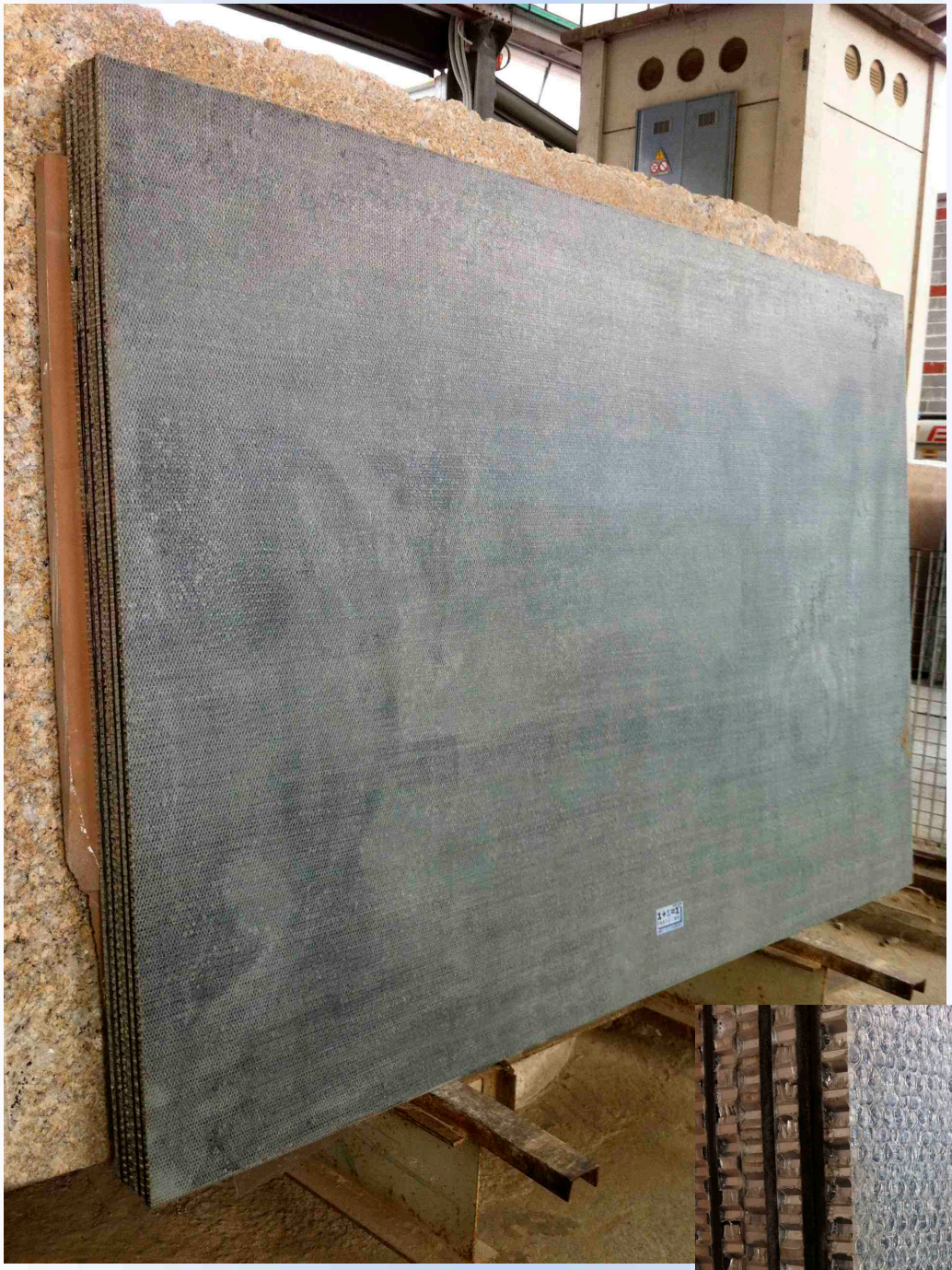
Test Report
215 FFPROCESS®

Production date: 215-2010 (August 03, 2010)
Test date: November 01, 2010

Example of
EXTRA LARGE
slabs of
FABYCOMB®
lightweight
black granite

mm 3200 x 1700 x 18
5.44 sqm. each
weight 1,046 N each
black granite thickness mm 5...

...back side
honeycomb



honeycomb thickness mm 13

Watch video of FABYACHTS® on http://www.youtube.com/watch?v=UDg2154OVXE

www.fabyachts.com

FABYACHTS® waterproof aseptic composite panel in lightweight marble

POSA IN OPERA RAPIDA PRECISA E PULITA
NEL RISPETTO DEGLI AMBIENTI YACHTS
IN ASSENZA DI COLLE E RESINE

INTERCAMBIABILE
ISPEZIONABILE
IMPERMEABILE
ASETTICO

FAST ACCURATE AND CLEAN INSTALLATION
RESPECTING THE ENVIRONMENT OF YACHTS
IN THE ABSENCE OF GLUES AND RESINS

INTERCHANGEABLE
INSPECTABLE
WATERPROOF
ASEPTIC

INTERNATIONAL PATENT WO2009060492

DAZZI VINICIO COMPANY, sole exclusive of *FABYACHTS*® International Patents, is the sole worldwide producer of *FABYACHTS*® products through special processes covered by industrial secrecy. Each imitation is therefore not only illegal, but does not provide any quality guarantee, stability and durability.
L'Azienda DAZZI VINICIO, sola esclusivista del brevetto internazionale *FABYACHTS*®, è l'unica azienda mondiale autorizzata a produrre prodotti *FABYACHTS*® tramite speciali processi coperti da segreto industriale. Ogni imitazione, oltre ad essere illegale, non fornisce alcuna garanzia di qualità, stabilità e durabilità.

Description	**EULITHE® 252 PIR**
❖ Rigid polyurethane/polyisocyanurate foam manufactured in continuous process	
❖ Colour: grey	

Provisional Technical Data Sheet Eulithe PIR 252
Version 11-2009

Technical data reported in this document are based on laboratory tests, nevertheless they are provided without any obligation on our part. The user of the product must verify by an own test the product suitability for the intended application and purpose.

Properties			
PROPERTY	METHOD	UNIT	TYPICAL VALUE
Density	ISO 845	g/cm³	0.25
Hardness Shore D	ISO 868		22÷30
Compressive strength parallel to rise	ISO 604	MPa	4÷6
Fire rating	UNI EN 13501-1		Euroclass E

fitlock INNOVATIVE, PRACTICAL, EASY AND SAFE, HORIZONTAL AND VERTICAL FIXING SYSTEM

Example of some slabs of FABYACHTS® lightweight Statuario marble (3 sqm. each); mm 2500 x 1250 x 20 (Statuario marble thickness mm 5) weight 577 N each...

...and its Factory Production Control Monoaxial Traction (pag 13 and 14)

	FACTORY PRODUCTION CONTROL Monoaxial Traction	PROJECT	TEST Nr	DATE
		Conferma Ordine 00232011	160-2011	7 ottobre 2011

MATERIAL	TYPE OF PRODUCTION PROCESS	CONDITIONING
FABYACHTS Lightweight 15 mm + Statuario 5 mm	FFPROCESS®	Natural condition after honed Statuario surface

LOADING DIRECTION

Axial

Equipment used for the mono-axial traction

Example of a specimen after the test

Luce [mm] 1

Specimen No	Length [mm]	Width [mm]	Modulo di resistenza	Breaking Load [N]	Traction stress [MPa]	Note
1	40,00	40,00	1600,00	1160,00	0,73	*See page 2 of 2*
2	40,00	40,00	1600,00	1010,00	0,63	*See page 2 of 2*
3	40,00	40,00	1600,00	1410,00	0,88	*See page 2 of 2*
4	40,00	40,00	1600,00	950,00	0,59	*See page 2 of 2*
5	40,00	40,00	1600,00	1040,00	0,65	*See page 2 of 2*
6						
7						
8						
9						
10						
			Average value	**1114,00**	**0,70**	
			Minimum expected value	**752,90**	**0,47**	

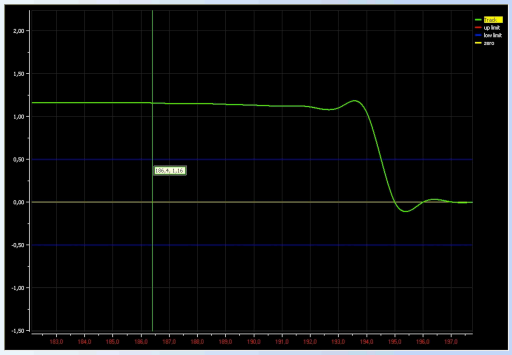
NOTE

This Test Report 160-2011 consists of 2 pages including this one

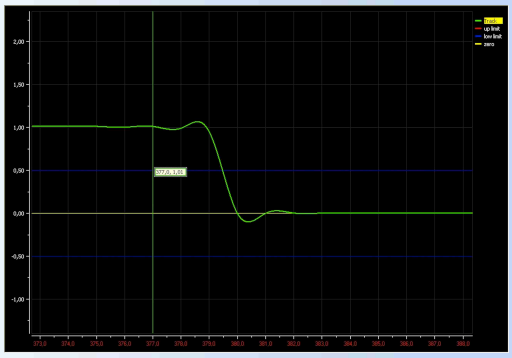
Production date: 160-2011 (June 09, 2011)
Test date: October 07, 2011

Specimens broken in "Statuario sector" (see pictures above of Example of specimens after the test).
No net detachment between the layer of Statuario and lightweight layer

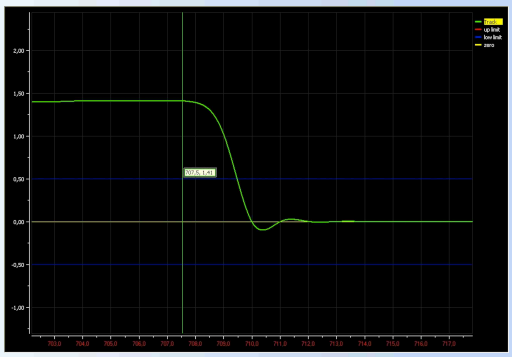
Specimen 01



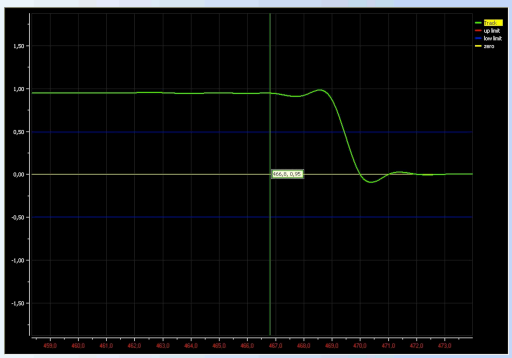
Specimen 02



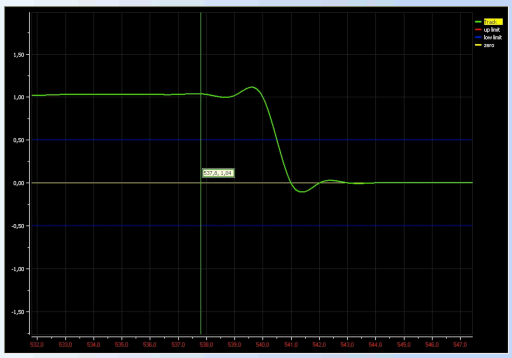
Specimen 03



Specimen 04



Specimen 05



www.cloudhonrock.com

CLOUDHONROCK®

Patented

Generally in the construction and furnishing industry, and particularly in marine applications like on luxury yachting, the target is to strengthen, or to give some other valuable mechanical or physical characteristics (lightness, elasticity, and tenacity) to decorative stones, used as floor and wall coverings. This problem is actually well solved for flat slabs: FABYCOMB®. CLOUDHONROCK® *(International Patents)* solves the problem also in case of curved slabs, completing and giving general use and application to this technology.
A lightweight and strong solution also for difficult stones (because cracked or structurally weak, even if aesthetically beautiful stones: onyx, travertine, any type of colored marble) otherwise traditionally used for curved claddings only in solid thickness (such as 30, 40, 50 mm and above) in this way causing a significant increase in dead weight and all problems related to it.

Pre-assembly test of cladding conic column CLOUDHONROCK® (luxury yacht furnishing)

Marble: Rosso Lepanto
Thickness: Honeycomb mm 20 + Rosso Lepanto marble mm 15
Height: cm 700
Area: sqm 30

The same cladding column, if made in solid Rosso Lepanto marble, it need a mimimum thickness of mm 40, resulting weight increase of 240%.
See comparative table below:

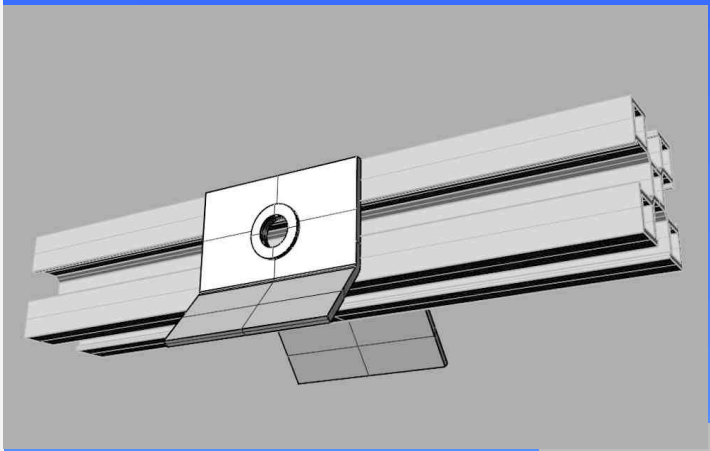
COMPARATIVE TABLE	CLOUDHONROCK® Patented Rosso Lepanto marble	SOLID Rosso Lepanto marble
Honeycomb thickness mm	20	0
Rosso Lepanto marble thickness mm	15	40
Cladding Column sqm	30	30
Cladding Column kg/sqm	45	108
Cladding Column tot kg	1350	3240

MERCURY HOUSE ONE
External coating in CLOUDHONROCK® panels (weight: kg 20 / sqm)
Marble: Statuario
Thickness: Honeycomb mm 20 + Statuario marble mm 5
Total weight: kg 600 (sqm 30)
Client: GIULIO VANELLI MARMI

SPIDERWEBHONROCK ®

ANCHORING SYSTEMS FOR LIGHTWEIGHT MARBLE SISTEMI DI ANCORAGGIO PER MARMO LEGGERO

System 1

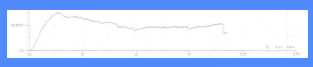


BINARY PROFILES in aluminium alloy AW6060 T6
according to UNI EN 755-2:2008

Sect 2,93 cm^2 — Weight 791 g/m
Jx = 3,3 cm^4 — Wx = 2 cm^3
Jy = 3,3 cm^4 — Wy = 2 cm^3
Tensile strength Rm: 190 N/mm^2
Voltage deviation from proportionality Rp0,2: 150 N/mm^2

FIXING POINTS in stainless steel AISI 304 thickness 2 mm embedded in epoxy resin, or, in aluminium 5083 thickness 3 mm. Bolts M8.

PULL OUT 500 N

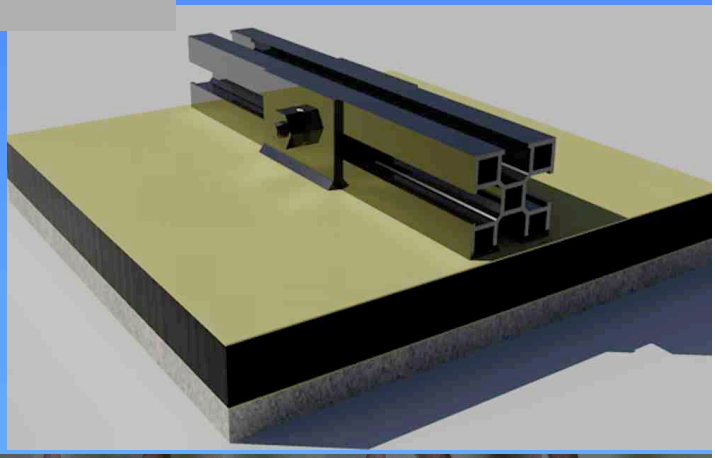


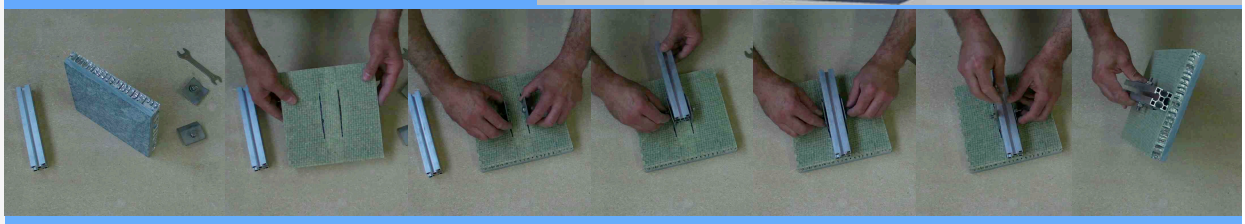
PROFILO BINARIO in alluminio AW6060 T6
secondo UNI EN 755-2:2008

Sez 2,93 cm^2 — Peso 791 g/m
Jx = 3,3 cm^4 — Wx = 2 cm^3
Jy = 3,3 cm^4 — Wy = 2 cm^3
Tensione di rottura Rm: 190 N/mm^2
Tensione di scost. dalla proporzionalità Rp0,2: 150 N/mm^2

PUNTI DI FISSAGGIO in acciaio inox AISI 304 spessore 2 mm affogato in resina epossidica, oppure, in alluminio lega 5083 spessore 3 mm. Bulloneria M8.

PULL OUT 500 N





www.spiderwebhonrock.com

SPIDERWEBHONROCK®

PROCESS®

Watch video of SHATTERPROOFSTONE® on http://www.youtube.com/watch?v=RwGeIDhR0HE

www.shatterproofstone.com

SHATTERPROOF STONE®
Patented

Application example for exterior facades...

...and its Factory Production Control Monoaxial Traction (pag 20 and 21)

FACTORY PRODUCTION CONTROL
Monoaxial Traction

PROJECT	TEST Nr	DATE
New York University	014-2011	16 gennaio 2011

MATERIAL	BLOCK Nr	CONDITIONING
SHATTERPROOF STONE® Patented in DESERT GOLD	23_Stock 9_Ref 033	Natural condition

LOADING DIRECTION

Axial

Equipment used for the mono-axial traction

Example of a specimen after the test

Luce [mm] 1

Specimen No	Length [mm]	Width [mm]	Modulo di resistenza	Breaking Load [N]	Traction stress [MPa]	Note
1	40,00	40,00	1600,00	5330,00	3,33	*See page 2 of 2*
2	40,00	40,00	1600,00	6900,00	4,31	*See page 2 of 2*
3	40,00	40,00	1600,00	7860,00	4,91	*See page 2 of 2*
4	40,00	40,00	1600,00	5970,00	3,73	*See page 2 of 2*
5	40,00	40,00	1600,00	5600,00	3,50	*See page 2 of 2*
6						
7						
8						
9						
10						
			Average value	**6332,00**	**3,96**	
			Minimum expected value	**4232,46**	**2,65**	

NOTE

This Test Report 014-2011 consists of 2 pages including this one.
Specimen broken in "stone sector" (see picture above of Example of a specimen after the test).
Detachment between metallic plate and stone material. No detachment between the two layers of stone.

Specimen 01

Specimen 02

Specimen 03

Specimen 04

Specimen 05

LIGHTWEIGHT STONE GLASS® is lightweight shatterproof safety panel in stone material laminated with glass sheets by FFPROCESS®. High process technology and high new performant raw materials, are essential to have this new excellent panel.

Some marbles, granites or stones, gauged in thin thicknesses, gain transparence, outstanding colors and natural drawings. Rare and precious onyxes can be used too, even if they have natural cracks. The decorative thin layer of stone laminated to the glass, combines the beauty of the first to the excellent mechanical characteristics of the last, all in one single new product, the LIGHTWEIGHT STONE GLASS®.

Technical characteristics

To understand the technical characteristic of LIGHTWEIGHT STONE GLASS® panel is necessary understand the technical characteristic of a common stone-glass panel: the specific gravity of glass is the same as the stone (2700 kg/cu m), so, the glass has only the function of trasparent layer support to thin layer of stone. The weight, in kilograms, of a common stone-glass panel is calculated with the following formula: surface area of the stone-glass panel (example 1.00 sqm) multiplied by the thickness of the stone-glass panel (example 0.016 m), multiplied by their specific weight 2700 kg/cu m (1.00 x 0.016 x 2700 = kg 43.2).
So, the weight of a common stone-glass panel of 16 mm thickness is 43,2 kg/sqm.
Well, attention please, the weight of LIGHTWEIGHT STONE GLASS® panel of same thickness 16 mm, is only 32 kg/sqm. This weight reduction is possible thanks to new patent stratification of composite layers of stone and glass that reduce the specific gravity from 2700 kg/cu m to 2000 kg/cu m.
LIGHTWEIGHT STONE GLASS® is lightweight shatterproof safety panel, flexible and elastic to shock. LIGHTWEIGHT STONE GLASS® panel stratification, vacuum with heat cycle and in absence of resins, is the maximum quality guarantee in terms of duration and for security purpose (in case of shocks). Our working process guarantees:

• durability of the transparent laminated glass with light transmission rate (except stone) more than 85% ;
• UV resistance of 98.5% .

Usable types of stone

It is possible to use any stone, once being checked in advance for the level of transparency, after gauging to thin thickness.

Usable types of glass

Extra-clear glasses.

Dimension

LIGHTWEIGHT STONE GLASS® panels maximum sizes are mm 2800 x 1500.

Thickness

16 mm (12mm composite layers by extra light glass and super pvb + 4mm stone).

Cutting

LIGHTWEIGHT STONE GLASS® panels can be cut by traditional machinery using normal tools of glass industry or marble industry;

Types of application

Interiors: shelves, work plans, internal walls, enlightened walls, enlightened false ceiling, desk tops, tables, door claddings, vanity tops, etc.
LIGHTWEIGHT STONE GLASS® panels may be used also outdoor, in properly framed metalwork.

Example of two LIGHTWEIGHT STONE GLASS® panels in pink marble (neon backlighting system);
dimensions of each one: mm 2200 x 950 x 16
weight of each one: kgs 67

FACTORY PRODUCTION CONTROL to guarantee the mechanical characteristics of LIGHTWEIGHT STONE GLASS® panels:
• Flexural strength under concentrated load, before and after ageing cycles;
• Rupture energy, before and after ageing cycles;
• Monoaxial Traction, before and after ageing cycles;
• Other specific quality tests for any specific final application

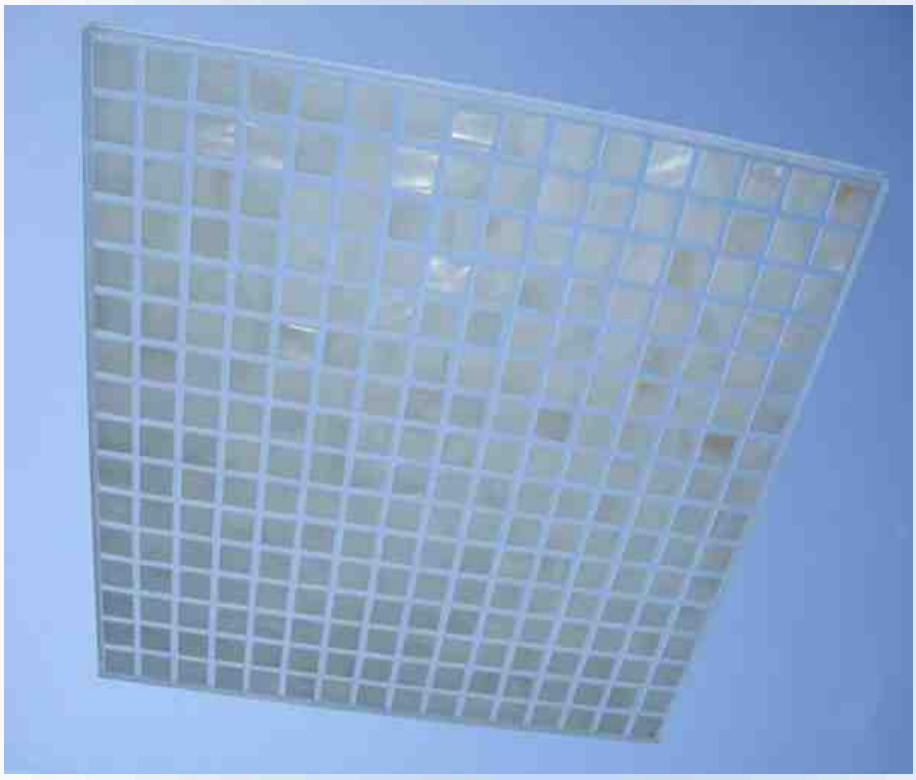
MO.PO.FUL.GLASS®

patented

www.mopofulglass.com

MO.PO.FUL.GLASS® panel is a step forward in the current state of art of mosaic technique, extending its range of applications. Traditionally the mosaic is a wall or floor decoration obtained drawing near and composing various colored tiles of stone, glass or the like.
All types of mosaic at the current state of art, have the following characteristics:
a) The adopted backings (concrete, poor stone slabs, wood, copper, brass or terracotta) do not allow transmission of light and this means that only one side is visible of each mosaic tile while the other provides to support the tile itself by some glue. Therefore at the current state of art, all mosaic tiles have a hidden side and a visible one;
b) The mosaic tiles are in contact with the atmosphere and therefore over the time subject to deterioration: the main agent of deterioration to preserve mosaics from, is humidity. This may cause de-cohesion between layers of mortar, and insufficient adhesion between layers may lead to fallout of mosaic tiles, saline efflorescence mainly in the joints, veils of calcium carbonate, attacks of micro-organisms and so on;
c) The adoption of mosaics, at the current state of art, is exclusively ornamental.

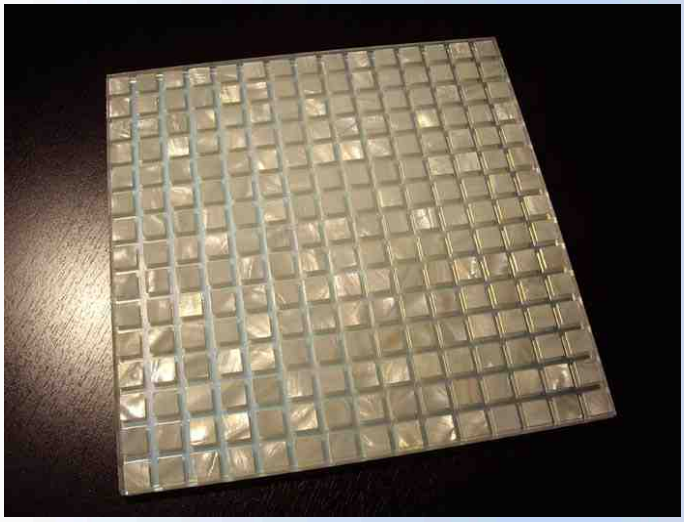
It would be interesting to get a mosaic where both sides are visible, protected from any deteriorating and/or aggressive agent, used not only as decorative element but as a bright element too, and absolutely strong and safe, thanks to the capacity to keep the various parts compact even if naturally fractured like some stones.
All this becomes possible by MO.PO.FUL.GLASS® panel.



MO.PO.FUL.GLASS® panel with mosaic tiles in mother of pearl.

Innovative features of the MO.PO.FUL.GLASS® panel
a) Both the faces of mosaic tiles are visible;
b) Mosaic tiles are protected, within two glass sheets, against any aggressive or deteriorating agent;
c) Space between the mosaic tiles allows light transmission, making the composition appear lightweight, giving the optical illusion of mosaic tiles suspended in the air;
d) The field of use of mosaics is extended as the MO.PO.FUL.GLASS® panel combines the decorative function of the mosaic with safety, thanks to the capacity to keep compactness even if fractured. MO.PO.FUL.GLASS® panel may be used, for example, in place of traditional concrete-framed glass panels and all situations where you want to combine decoration, brightness and safety.

MO.PO.FUL.GLASS® reflective panel has only one side to be visible.
Mosaic tiles are protected, inside two glass sheets, against any aggressive agent.



Space between the mosaic tiles allows the reflection of light making the composition lightweight with optical illusion of mosaic tiles suspended in air.

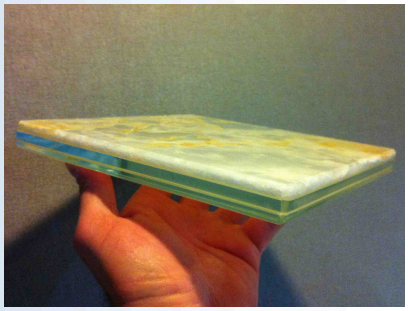
MO.PO.FUL.GLASS® reflective panel may be used as covering and in all situations where you want to combine decoration, brightness and safety.

STONE-GLASS

www.ffprocess.com

Thin slab of stone material laminated with glass sheets by FFPROCESS®

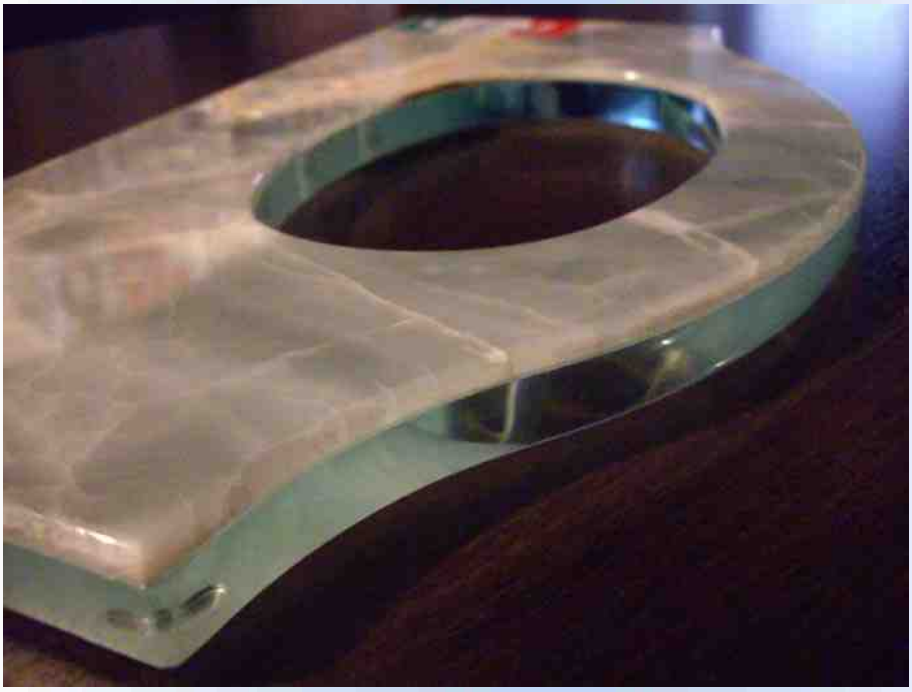
Some marbles, granites or stones, gauged in thin thicknesses, gain transparence, outstanding colors and natural drawings. Rare and precious onyxes can be used too, even if they have natural cracks. The decorative thin layer of stone laminated to the glass, combines the beauty of the first to the excellent mechanical characteristics of the last, all in one single product, the STONE-GLASS.



Usable types of stone
It is possible to use any stone, once being checked in advance for the level of transparency, after gauging to thin thickness.
Usable types of glass
It is possible to use one or more glasses, in various thicknesses.
Normal float or extra-clear glasses, stratified glasses, tempered glasses etc.
Dimension
The STONE-GLASS panels maximum sizes are mm 2800 x 1500.
Thickness
Stones materials: from 2mm to 6mm.
Glass: from 4mm to 10mm, multi-strata or not (other thicknesses on request).
Cutting
The STONE-GLASS panels can be cut by:
- Traditional machinery using normal tools of glass industry;
- Water jet cut machine.

The STONE-GLASS panels adopting tempered glass are produced in fixed sizes only, because they cannot be cut after lamination.
Types of application
Interiors: shelves, work plans, internal walls, enlightened walls, floating floors, enlightened false ceiling, desk tops, tables, door claddings, vanity tops, etc.
The STONE-GLASS panels may be used also outdoor, in properly framed metalwork.

FACTORY PRODUCTION CONTROL to guarantee the mechanical characteristics of STONE-GLASS panels:
- Flexural strength under concentrated load, before and after ageing cycles;
- Rupture energy, before and after ageing cycles;
- Monoaxial Traction, before and after ageing cycles;
- Other specific quality tests for any specific final application

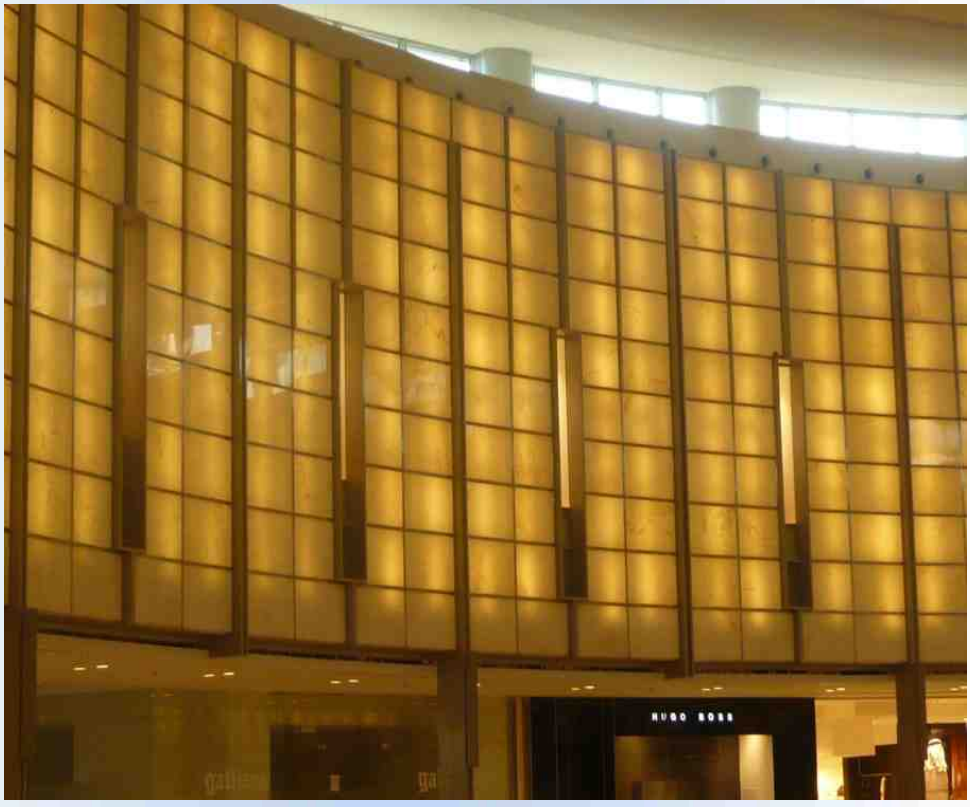


STONE-GLASS vanity top
Onyx (thickness mm 4)
Float glass (thickness mm 15)

Backlighting wall coverings system...

... of six STONE-GLASS panels
of mm 2700x1200 in onyx (thickness mm 4)
and extra-clear glasses (thickness mm 10+10)

DUBAI MALL
Backlit coating in STONE-GLASS panels (sqm 6000)
Estremoz marble and float glass
Client: ASCON MARBLE



GLASS-STONE-GLASS

www.ffprocess.com

Thin slab of stone material laminated both sides with glasses by FFPROCESS®

Some marbles, granites or stones, once thin laminated, gain translucency, exciting colors and natural features. Rare and precious onyxes may be used even in case they have natural cracks. The decorative thin layer of the stone laminated to the glass provide one product, the GLASS-STONE-GLASS, combining the beauty of the stone and the excellent mechanical characteristics of glasses. The GLASS-STONE-GLASS has a remarkable resistance to the stresses.

Usable types of stone
It is possible to use any stone, once being checked in advance for the level of transparency, after gauging to thin thickness.
Usable types of glass
It is possible to use one or more glasses, in various thicknesses.
Normal float or extra-clear glasses, stratified glasses, tempered glasses etc.
Dimension
The GLASS-STONE-GLASS panels maximum sizes are mm 2800 x 1500.
Thicknesses
Stones materials: from 2mm to 6mm.
Glass: from 4mm to 10mm, multi-strata or not (other thicknesses on request).
Cutting
The GLASS-STONE-GLASS panels can be cut by:
- Traditional machinery using normal tools of glass industry;
- Water jet cut machine.

The GLASS-STONE-GLASS panels adopting tempered glass are produced in fixed sizes only, because they cannot be cut after lamination.
Types of application
Interiors with high strength requirements: shelves, work plans, internal walls, enlightened walls, floating floors, enlightened false ceiling, desk tops, tables, door claddings, vanity tops, etc. The GLASS-STONE-GLASS panels may be used also outdoor, in properly framed metalwork.

FACTORY PRODUCTION CONTROL to guarantee the mechanical characteristics of GLASS-STONE-GLASS panels:
- Flexural strength under concentrated load, before and after ageing cycles;
- Rupture energy, before and after ageing cycles;
- Monoaxial Traction, before and after ageing cycles;
- Other specific quality tests for any specific final application

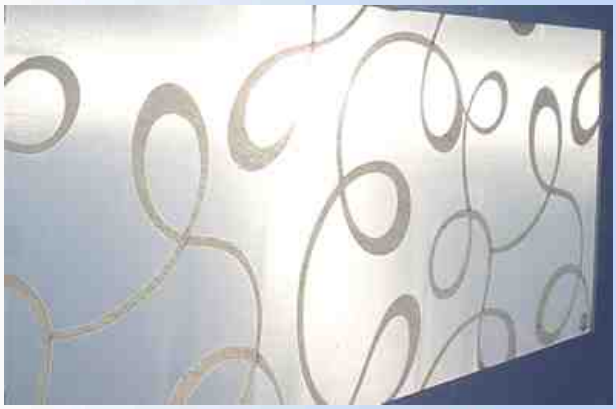
GLASS-CLOTH-GLASS

www.ffprocess.com

Translucently cloths in glass by FFPROCESS®

Usable type of cloths
It is possible to use all the types of cloths, of any format.
Usable type of glass
It is possible to use different types of glasses, in various thicknesses: normal float or extra clear glasses, stratified glasses, tempered glasses etc.
Dimension
The GLASS-CLOTH-GLASS panels maximum sizes are mm 2800 x 1500.
Types of application
Interiors: shelves, work plans, internal walls, enlightened walls, floating floors, enlightened false ceiling, desk tops, tables, door claddings, vanity tops, etc.
The GLASS-CLOTH -GLASS panels may be used also outdoor, in properly framed metalwork.






FACTORY PRODUCTION CONTROL to guarantee the mechanical characteristics of GLASS-CLOTH-GLASS panels:
• Flexural strength under concentrated load, before and after ageing cycles;
• Rupture energy, before and after ageing cycles;
• Monoaxial Traction, before and after ageing cycles;
• Other specific quality tests for any specific final application

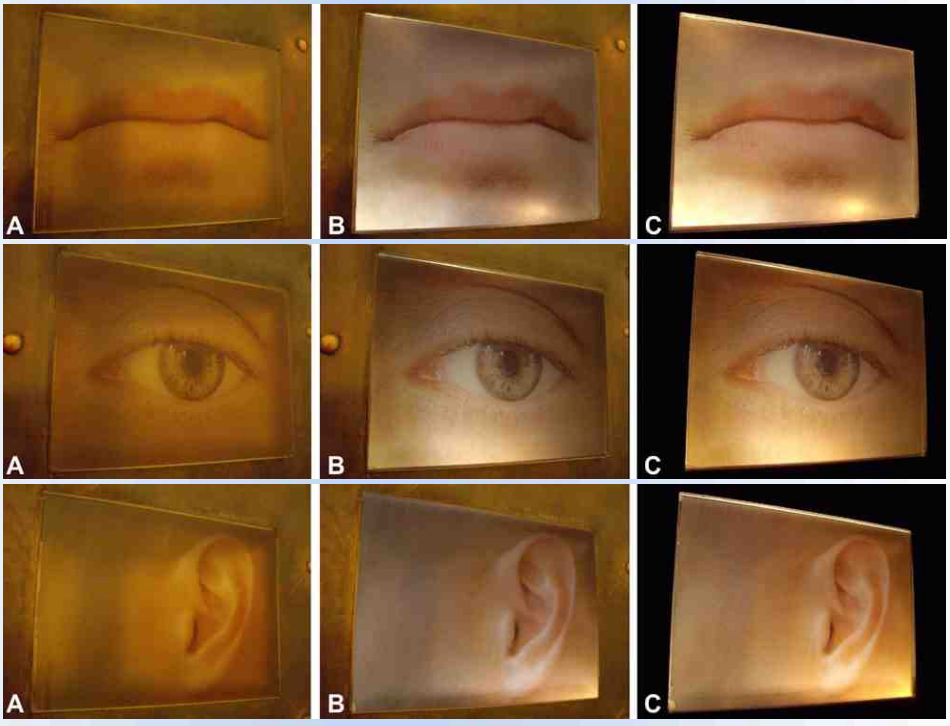
GLASS-PHOTO-GLASS

www.ffprocess.com

Translucently photos in glass by FFPROCESS®

Usable type of photo
It is possible to use all the types of photos, of any format, digital and not.
Usable type of glass
It is possible to use different types of glasses, in various thicknesses: normal float or extra clear glasses, stratified glasses, tempered glasses etc.
Dimension
The GLASS-PHOTO-GLASS panels maximum sizes are mm 2800 x 1500.
Types of application
Interiors: shelves, work plans, internal walls, enlightened walls, floating floors, enlightened false ceiling, desk tops, tables, door claddings, vanity tops, etc.
The GLASS-PHOTO-GLASS panels may be used also outdoor, in properly framed metalwork.

A = GLASS-PHOTO-GLASS front lighted
B = GLASS-PHOTO-GLASS front and back lighted
C = GLASS-PHOTO-GLASS back lighted



FACTORY PRODUCTION CONTROL to guarantee the mechanical characteristics of GLASS-PHOTO-GLASS panels:
• Flexural strength under concentrated load, before and after ageing cycles;
• Rupture energy, before and after ageing cycles;
• Monoaxial Traction, before and after ageing cycles;
• Other specific quality tests for any specific final application

OUR JOBS

CLIENT	YEAR	PROJECT	COUNTRY	sqm	PRODUCT	MARBLE
Niehuis & Van de Berg B.V.	2000-2010	Yachts Shipyard	Netherlands	7000	Fabycomb®_Stone-Honeycomb	Varies
Niehuis & Van de Berg B.V.	2005-2010	Yachts Shipyard	Netherlands	1000	Stone-Glass_Glass-Stone-Glass	Varies
Azimut Benetti	2005-2010	Yachts Shipyard	Italy	800	Fabycomb®_Fabyachts®	Varies
Sunseekers	2009-2010	Yachts Shipyard	United Kingdom	250	Fabycomb®_Stone-Honeycomb	Varies
Peter Marino Architect	2005-2010	Private Apartment New York	USA	3100	Fabycomb®_Cloudhonrock®	Bateig Fantasy
Freda Campolonghi Group	2008-2010	Slabs	Italy	350	Fabycomb®_Stone-Honeycomb	Varies
Italian Ministry of Foreign Affair	2009-2010	G8 Maddalena Villa	Italy	350	Fabycomb®_Stone-Honeycomb	Statuario
Giulio Vanelli Marmi	2009	Mercury House One	Italy	50	Fabycomb®_Cloudhonrock®	Statuario
Tim Elevators	2009-2010	Lift Cabs	Canada	300	Fabycomb®_Stone-Honeycomb	Varies
Ascon Marble	2007	Dubai Mall	Dubai U.A.E.	6000	Stone-Glass_Fabycomb®	Estremoz
Blue Tech Montreal Inc.	2010	New York University	USA	700	Shatterproofstone®	Desert Gold
Standard Production	2005-2010	Slabs	Italy	5000	Fabyachts®_Fabycomb®_Stone-Honeycomb	Varies
Standard Production	2005-2010	Slabs	Italy	1200	Stone-Glass_Glass-Stone-Glass	Onyx

Contents

Thank You for your interest

CLOUDHONROCK®

Patented

STONE-HONEYCOMB

STONE-GLASS

patented

1+1=1®

FABYCOMB

STONE + HONEYCOMB IN ONE SHOT !

GLASS-STONE-GLASS

patent pending

Patented

FABYACHTS®

LIGHTWEIGHT & WATERPROOF MARBLE

SPIDERWEBHONROCK®

GLASS-CLOTH-GLASS

MO.PO.FUL.GLASS®

patented

GLASS-PHOTO-GLASS

SHATTERPROOF STONE®

Patented