

PRESENTATION about us | material | projects



Glaskeramik® UPCYCLING - from industrial waste glass to a sustainable material for facades and interior design.



Other meanings of "Glaskeramik"









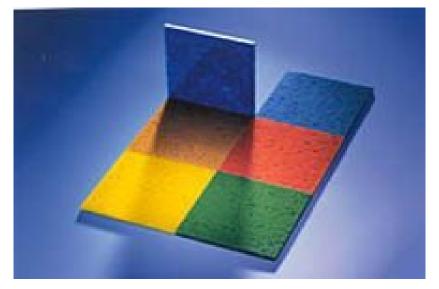






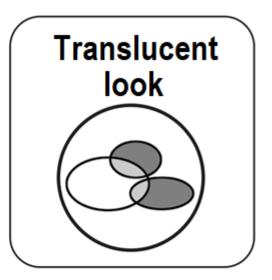














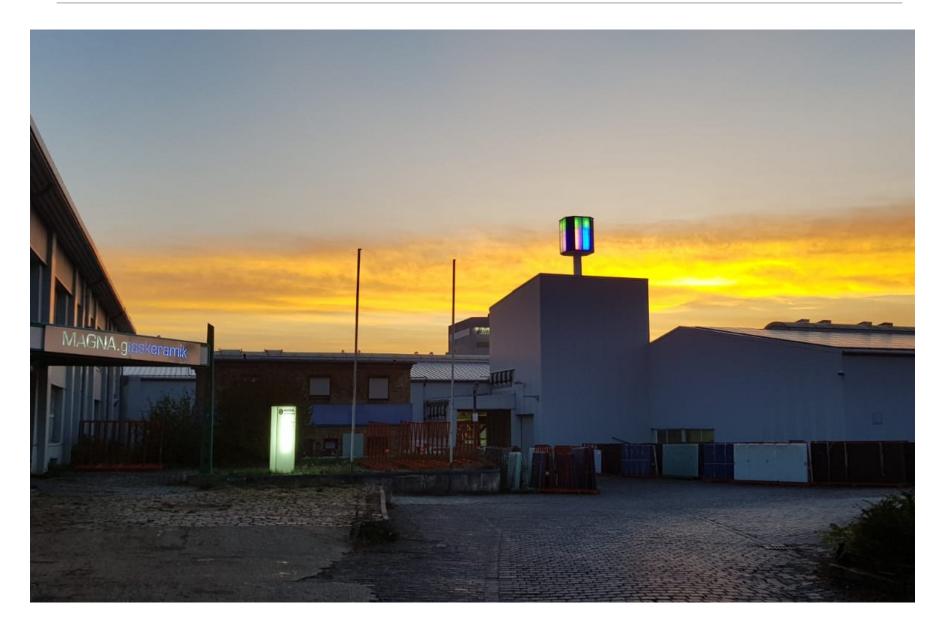




BASICS Production

Factory Teutschenthal – eastern Germany





Production step 1: breaking glass waste











Production step 1: breaking bottle glass waste











Production step 2: filling of cullets into wagons





Production step 3: leveling and sorting of cullets





Manual glass cullet sorting and quality check

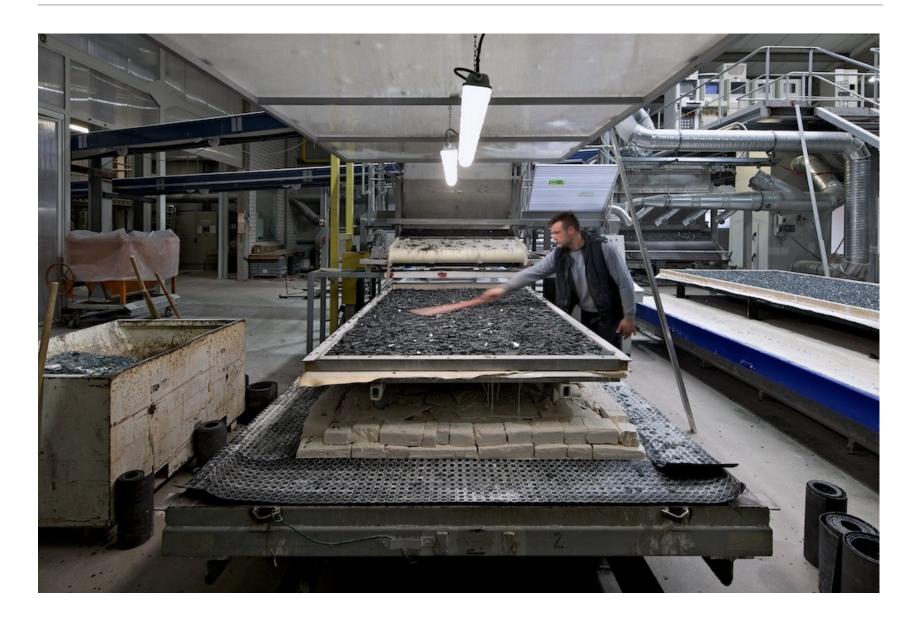


Recycled solar panel glass ready for oven sintering



Production step 3: leveling and quality check





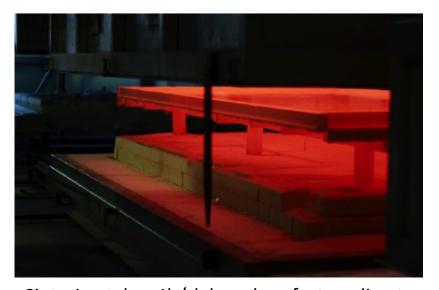
Production step 4: oven sintering for 4h



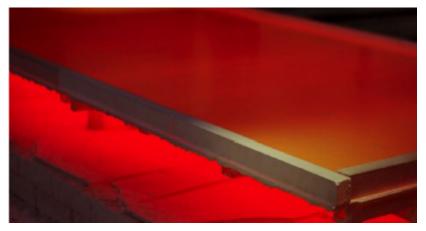


Impression from individual slab oven sintering



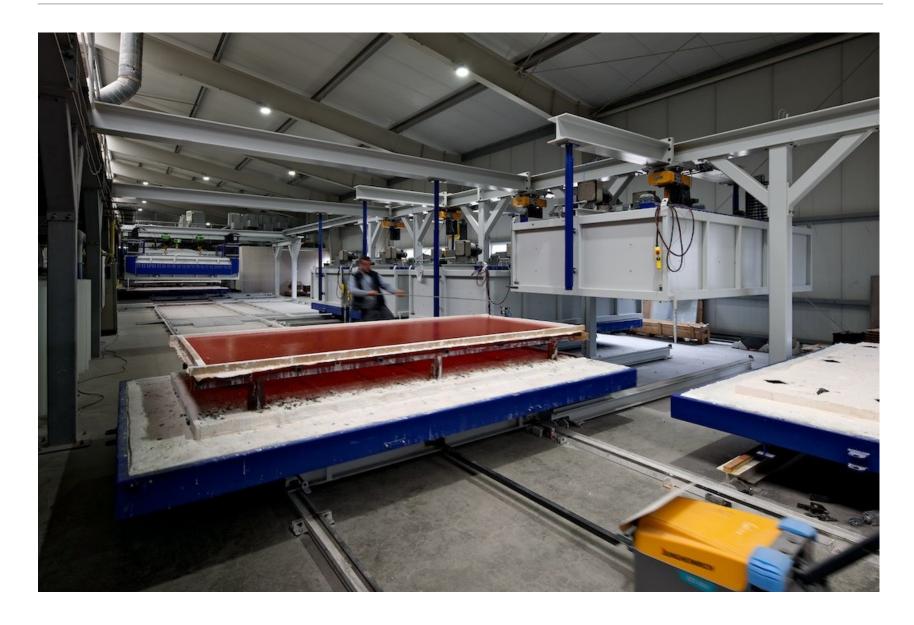


Sintering takes 4h/slab and perfect cooling to avoid any tensions within the material another 16h/slab



Production step 5: cooling for 16h

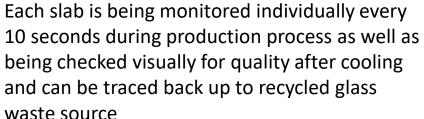




Production step 4/5: monitoring quality





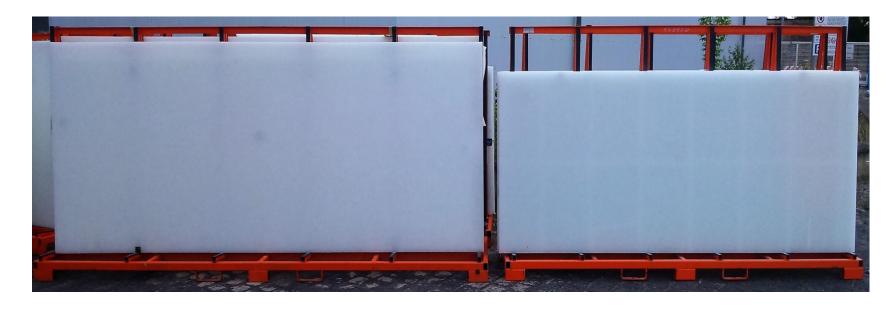


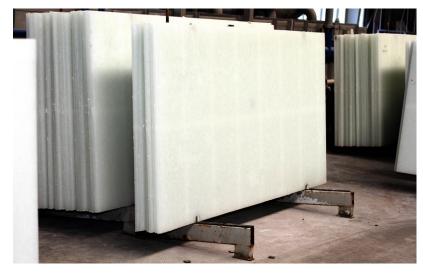


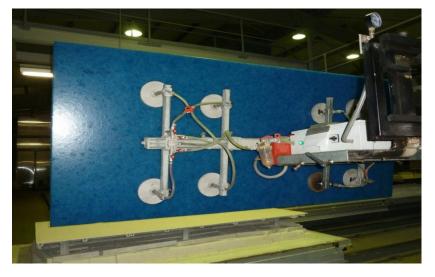


Production: finished slabs from two ovens



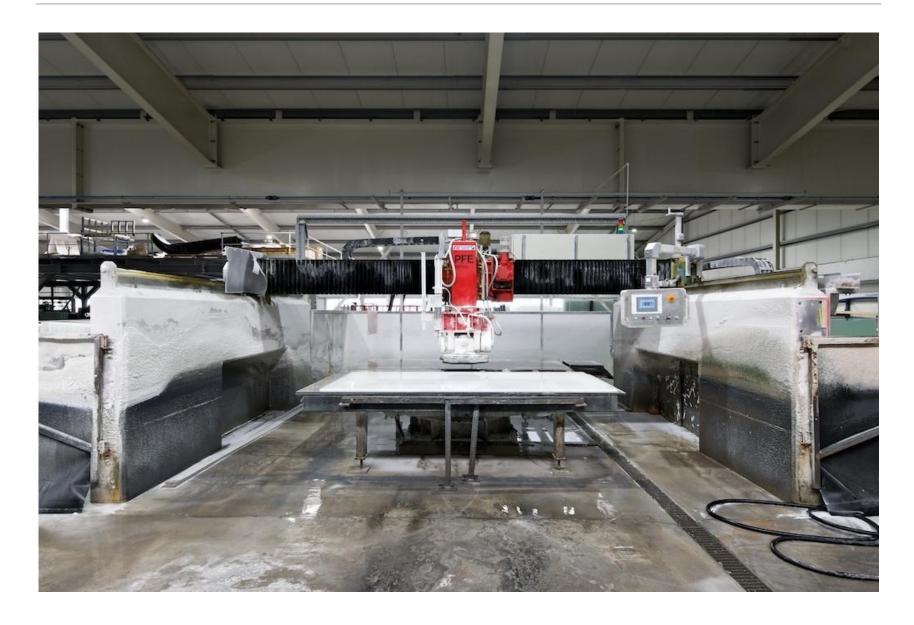






Processing of slabs – calibration to final thickness





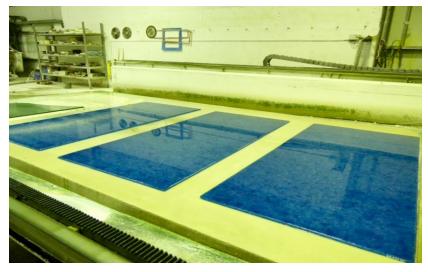
Processing – polishing





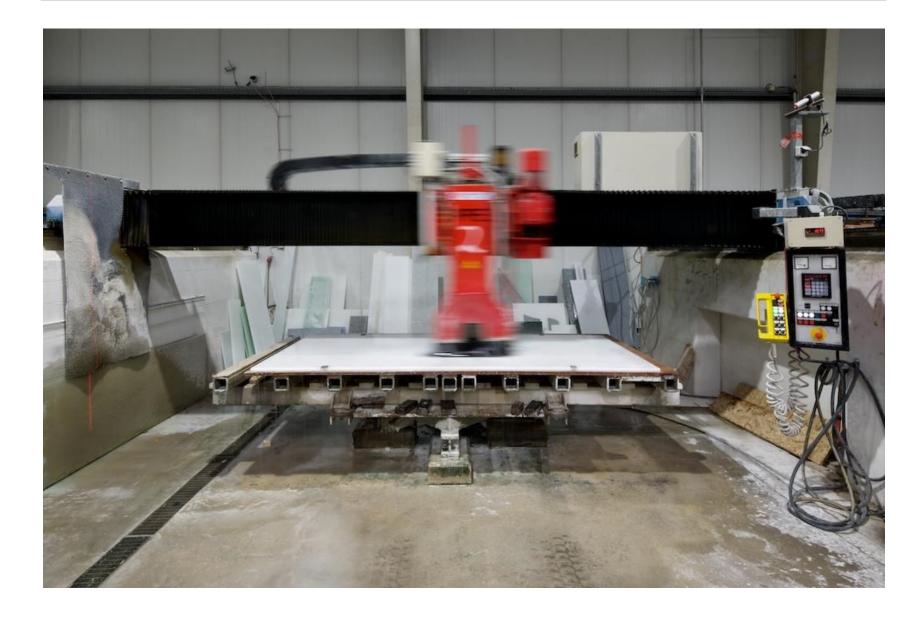






Processing: Bridge Saw - cut to size





Processing: Water jet – cut to size











Processing - Connection with Natural Stone





Waterjet and CNC cutting





Diamond grinding blades with water cooling



3 different surface finishes





PATINATED
Finish with texture and
high relief for surfaces whilst
offering low glare reflectivity
and low scratch-ability.



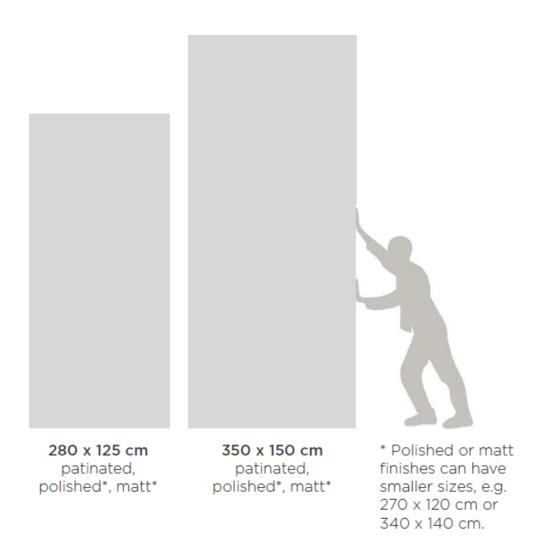
POLISHED
Polished finish gives the Glaskeramik colours a perfect reflection. The transformation from the 2D into 3D effect shows off the crystalline structure even better.



MATT Absolute matt finish. Extremely resistant, silky smooth and perfect for business applications.

2 different slab sizes





Varios thickness UPDATE



16 mm	*	Special production
20 mm	*	Standard
30 mm		Special production



BASICS Sustainabillity

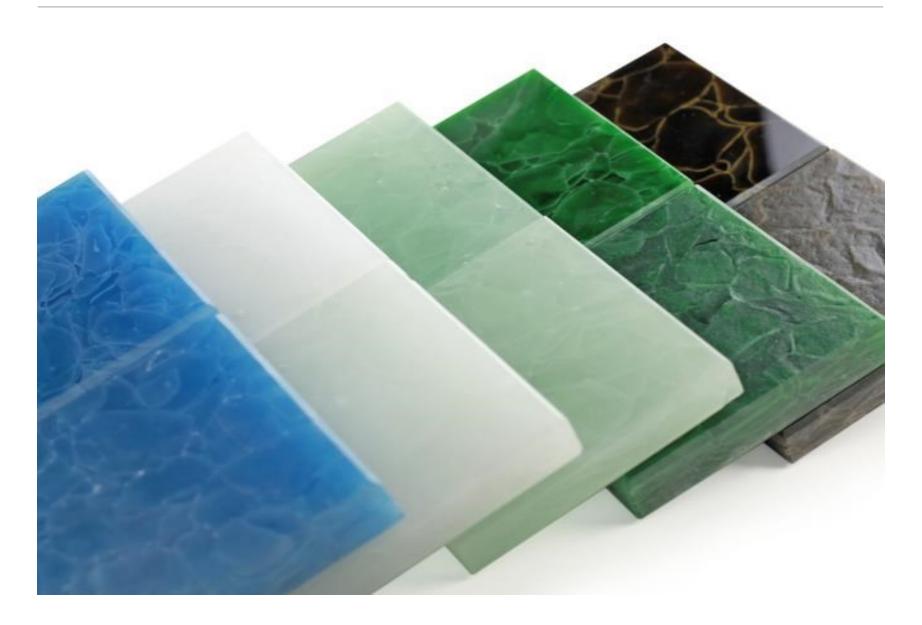
Sustainability principle





Sustainability principle





Sustainability principle – solar energy and water





Part of the electricity is produced by the solar system. Water used in production is recycled and used several times.

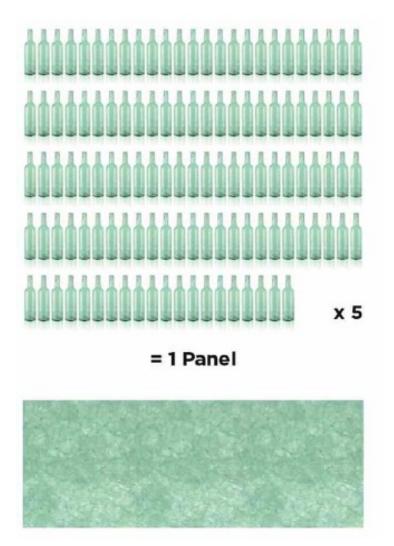




Sustainability principle



Our recycling principle:



Our Value:



Sustainability certificates

















BASICS Colours

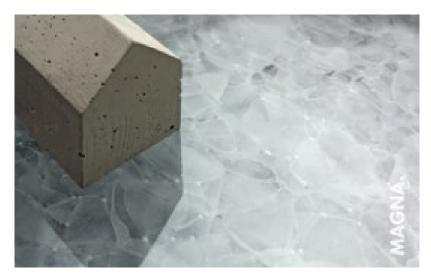


ICE NUGGET: made from recycled 6-8mm pieces of industrial white glass waste











POLAR WHITE: made from waste of ultra white glass for solar panels









JADE: made from recycled float glass (industrial basic windows glass)



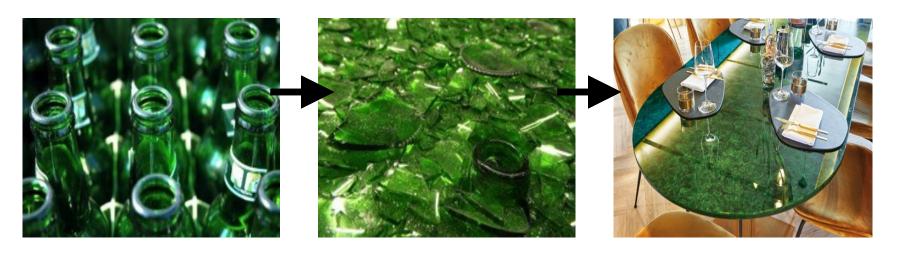




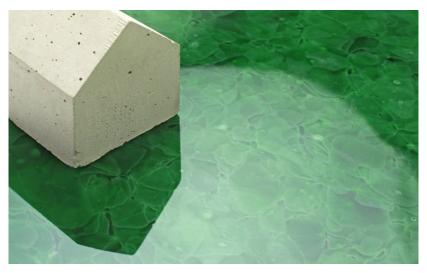




GREEN: made from recycled green beer glass bottles (Heineken)









BLUE SKY: made from recycled light blue mineral water bottles







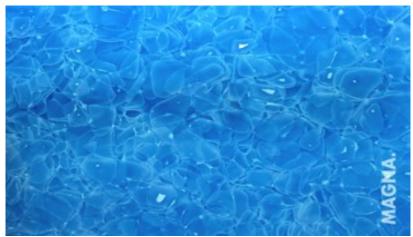




OCEAN BLUE: made from recycled sparkling water bottles









BLACK: made from recycled sun protection tinted glass – float grey





CHAMPAGNE BROWN: made from reycyled beer, champagne ánd sparkling wine bottles







Official Colour Range



Special Colours

- Adding colour pigments to fine grain
- + semi liquid production phase
- = individual colours /shapes and pattern in slabs possible
- Substitution for Onyx, Alabster and Quartz in exterior application
- small MOQ









BASICS Features

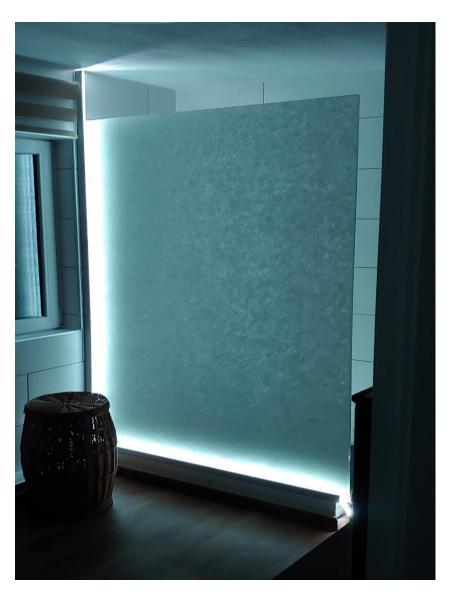
Material Features – safety glass by films/foils



Anti-shatter film/foils

- applied on the back of material invisible
- increases contrast of polished surface
- used in public areas if safety glass breakage behavior is necessary
- mostly used in shower or partition walls
- can be glossy, matt or colored
- foilscan be cut in any shape





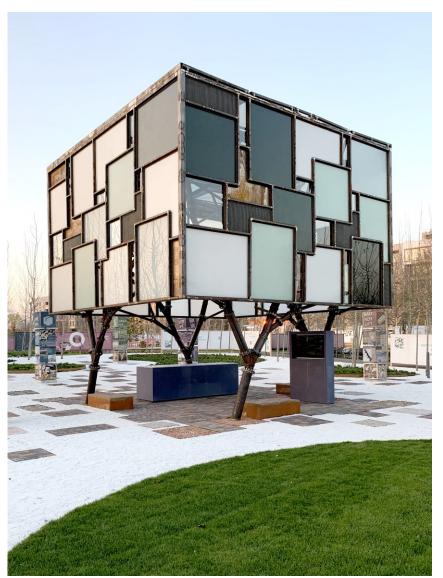
Material Features - safety glass by varnish



Anti-shatter varnish - protection laquer

- applied on the back
- used in public areas for exterior use
- used in public areas if safety glass breakage behavior is necessary
- Easy application cheaper and easier to apply than films
- Varnish can be felt on backside surface application only if not directly touchable/visible



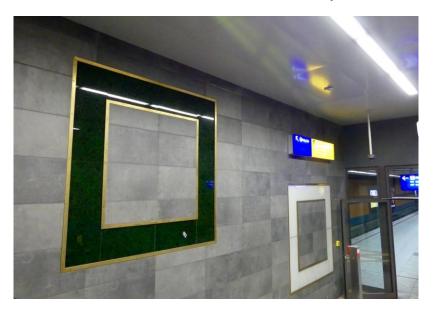


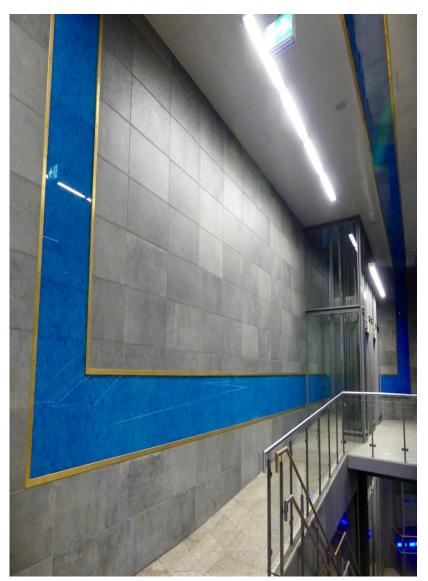
Material Features – safety glass lamination (VSG)



Full safety glass lamination

- Backside laminated safety glass with PVB or EVA technology
- Normally 16mm Glaskeramik + 1.5mm
 PVB + 6mm toughened glass
- Backup at public places, overhead glazing, balustrades, railings, stairs
- Makes Glaskeramik structurally useable

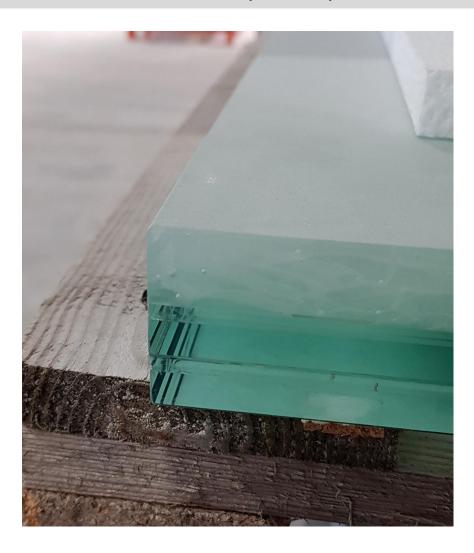




Material Features - stairs Laser Grip and VSG



Stairs with Laser Grip for slip resistance and safety glass lamination





Material Features – Bending/Curving



Completley individual forms possible

- Gravity bending Process works only with heat and self weight of material
- Individual moulds
- Possible produce forms on customer request, even 3-dimensional shapes
- MOQ = 1, quick and easy







Material Features – Bending/Curving



different shapes









Material Features – Laser Grip slip resistance

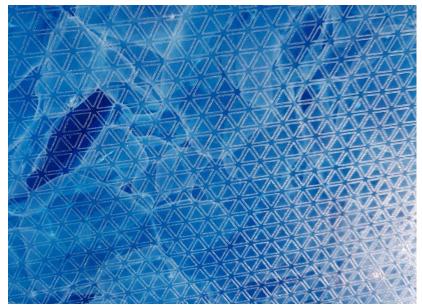


Laser Grip Flooring and Stairs

- possible on all surfaces
- Slip resistance rating up to R10
- barely visible on the surface
- Laser pattern can be customized
- stairs, floor and design objects







Material Features - sandblasting



Sanblasting for slip reistance or design pattern

- compressed air blasting with solid abrasive (sand)
- only superficial editing
- any shape/pattern possible
- looks slightly frosted
- cheap and easy processing
- can be done locally



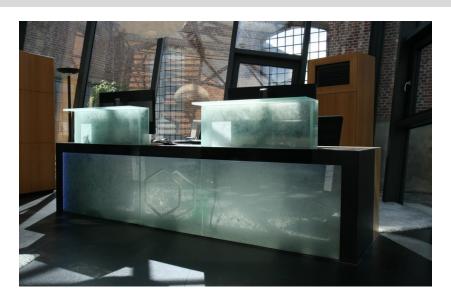




Material Features – engraving logos/letters

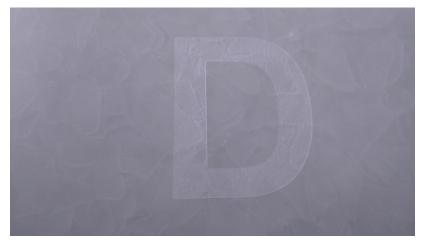


Engraving letters by CNC or sandblasting – indiviual design possible





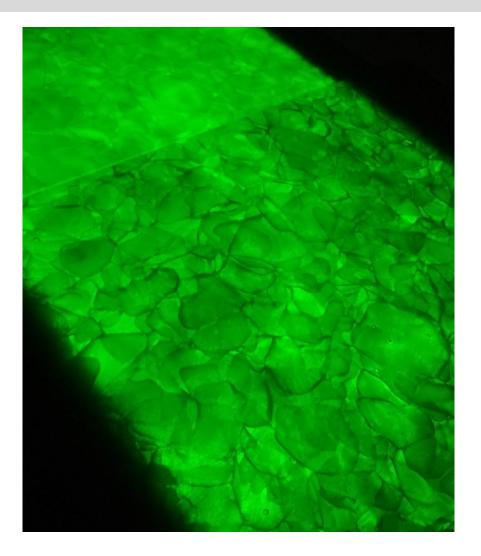




Material Features – backlight



LED Panel - warm and cold white + RGB features







Material Features – backlight



Glaskeramik = excellent diffuser of light



Material Features – edge options



Miter vs. 2+2cm

- Mitre cut glued aprons possible
- Alternativ 2cm polished edge
- Alternative 2+2 or 2+2+2cm for bigger edges with standard slab thickness
- 3cm slabs possible on request (longer lead times)









APPLICATION
Counters and Tables

Material Applications - illuminated Countertops



Casino Vienna: bar surface in Polar White patinated illuminated | Austria







Material Applications - illuminated Counter



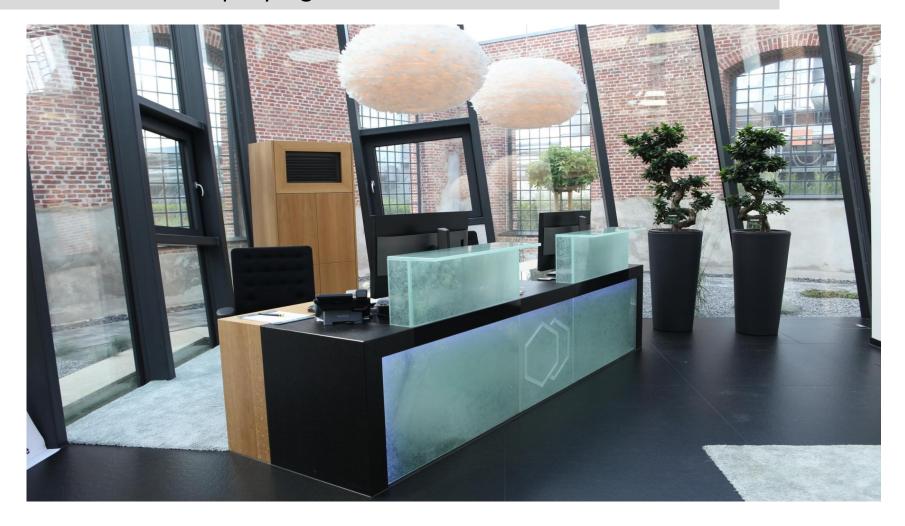
Disco Star backlit bar by popup Ocean Blue patinated | Bremen | Germany



Material Applications - illuminated Counter



Reception Desk Clear polished Naturstein Halbach GmbH – sandblasted Company logo



Material Features – engraving logos/letters

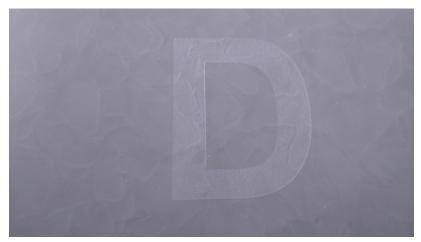


Engraving letters by CNC or sandblasting – indiviual design possible









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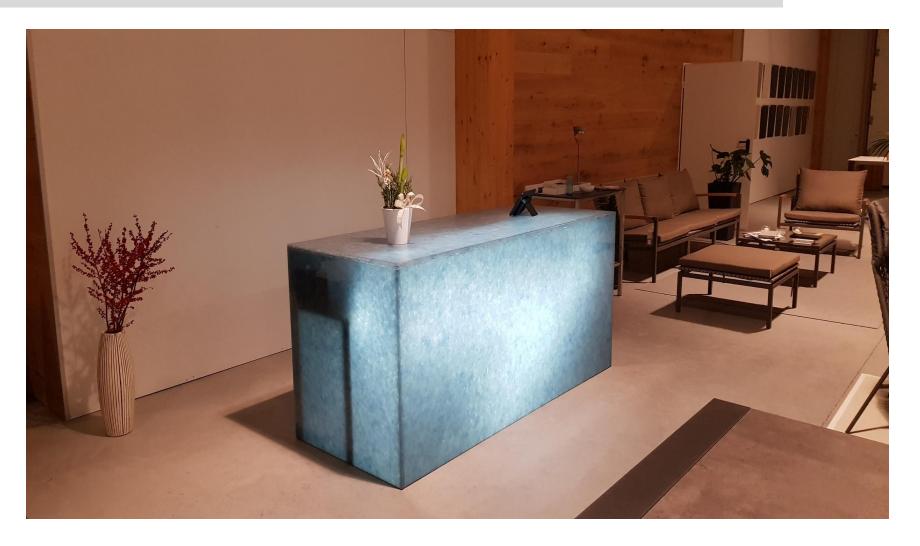




Material Applications - illuminated Counter



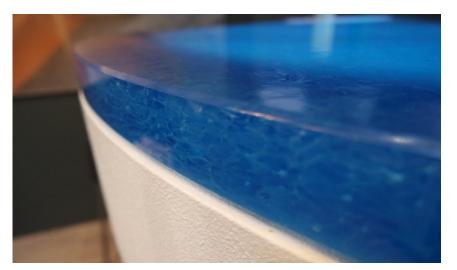
Reception Desk Blue Sky patinated Alpgranit Rheinfelden | Germany



Material Applications - illuminated Countertops



Rohde show counter @Glasstec Ocean Blue patinated | Germany





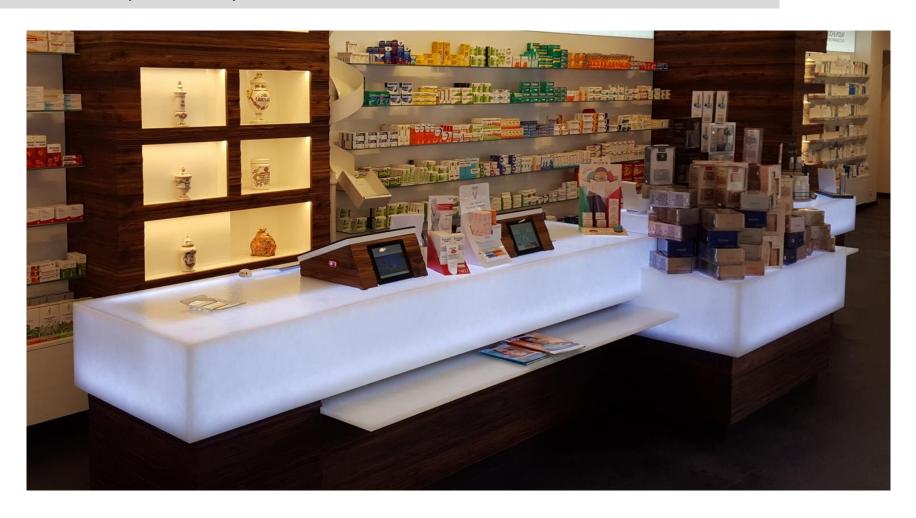




Material Applications - illuminated Counter



Reception Desk Pharmacy RAM architects Polar White patinated Munich | Germany

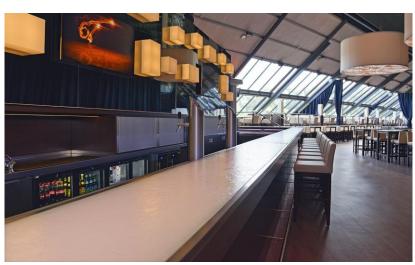


Material Applications - illuminated Countertops



Bar VIP Area Arena Leipzig Polar White patinated Leipzig | Germany





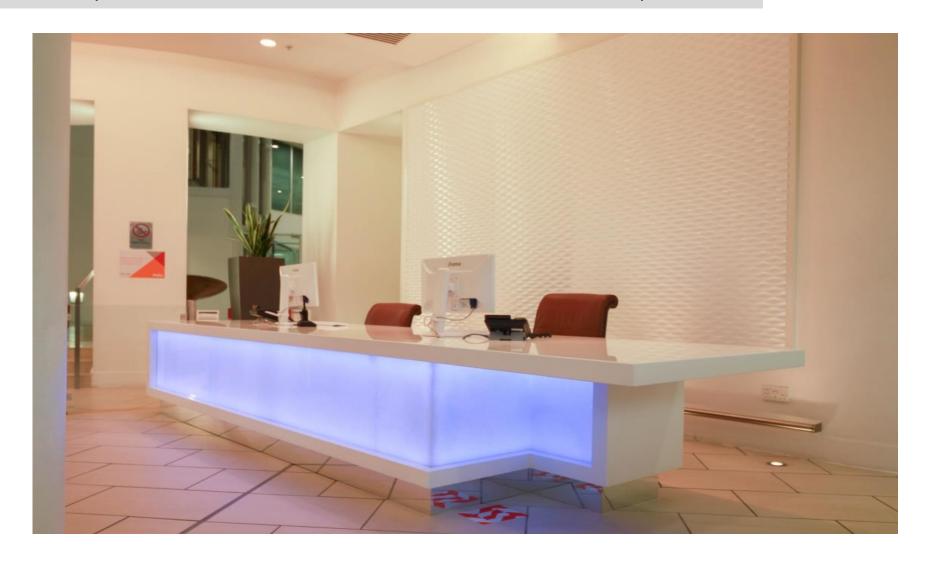




Material Applications - - illuminated Counter



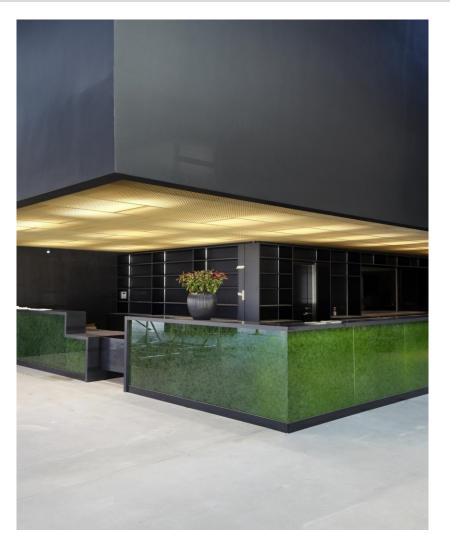
Reception desk: Polar White illuminated for Lomax Ltd. | London



Material Applications - illuminated Counter



Concert House Aarhus Green polished | Denmark



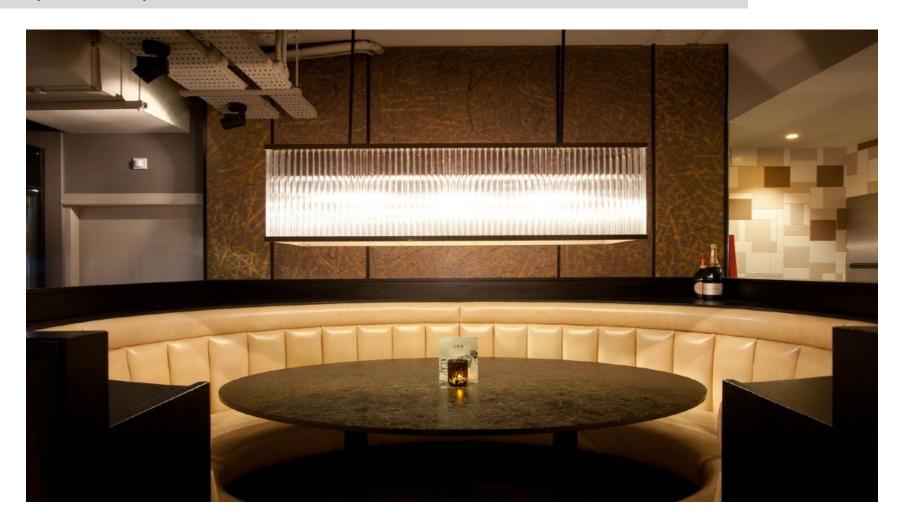




Material Applications - Countertops



Corney & Barrow Wine Purveyors bar Beer Brown patinated | London | UK

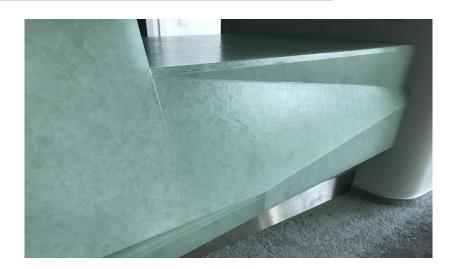


Material Applications - Counter



Reception desk Pradus Jade patinated | Germany

- different angles
- produced according to technical drawings
- gluing without joint possible







Material Applications - Countertops



Herman de Bleijker Restaurant 'Goud' Champagne brown and Green polished | Rotterdam | Netherlands







Material Applications - Table



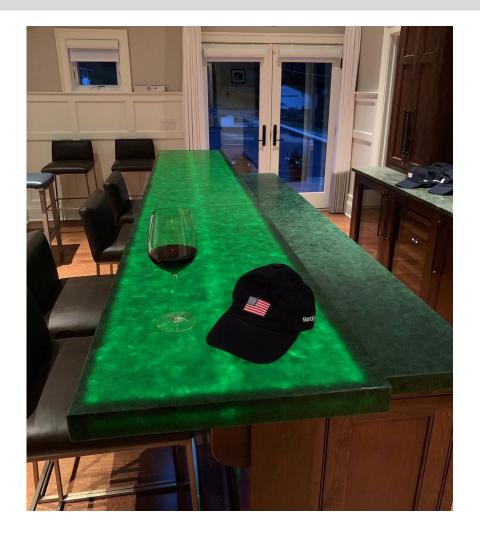
Gordon Ramsay restaurant Champagne Brown patinated table | London



Material Applications - Counters



Bar top Green matt honed backlit Walker Zanger | New York City | USA







Material Applications – Bending



Master of LXRY 2018 Black patinated Piano | Netherlands

- handmade forms
- exclusively with heat and gravity
- Possible produce forms on customer request







Material Applications - Bending



Master of LXRY 2018 Black patinated Piano | Netherlands



Material Features – Bending/Curving



different shapes











APPLICATION Kitchen

Material Applications - Kitchen



Kitchen splashback and illuminated countertop Ocean Blue and Polar White







Material Applications - Countertops



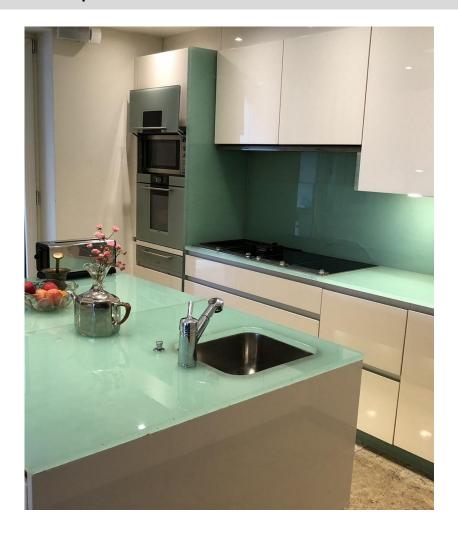
Kitchen surface: Jade polished 2+2 cm Edges | Stuttgart Germany



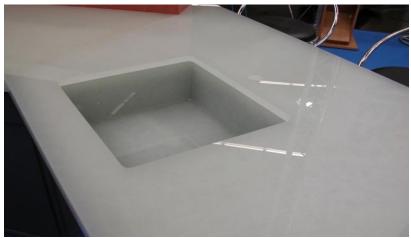
Material Applications - Kitchen



Undercounter kitchen sink in Creme White polished, Jade polished and patinated







Material Applications - Countertops



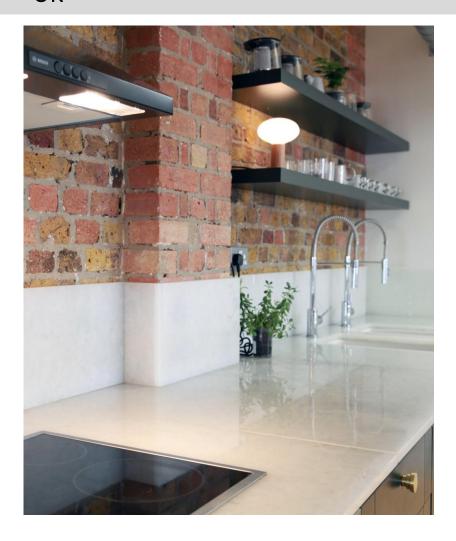
RBS Elektro Showroom kitchen black patinated glued bridge solution | Germany



Material Applications - Kitchen



Kitchen worktops showroom TALA Polar White polished | London | UK



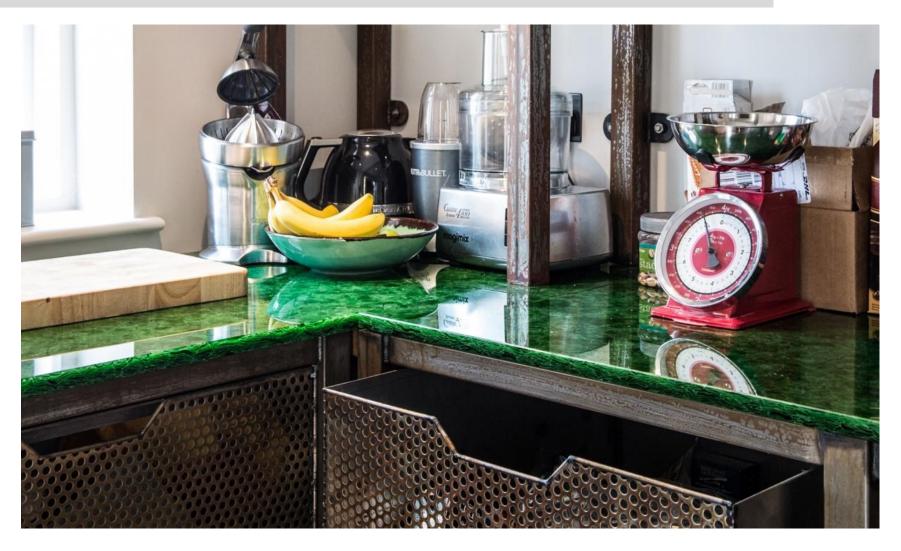




Material Applications - Countertops



Nelson Design Credit for Stareton Green polished countertop | UK



Material Applications - Kitchen



Worktop Polar White patinated glued bridge solution Manchester | London | UK









APPLICATION Bathroom

Material Applications – Bathroom



Bathroom – Showerwall and vanity curved



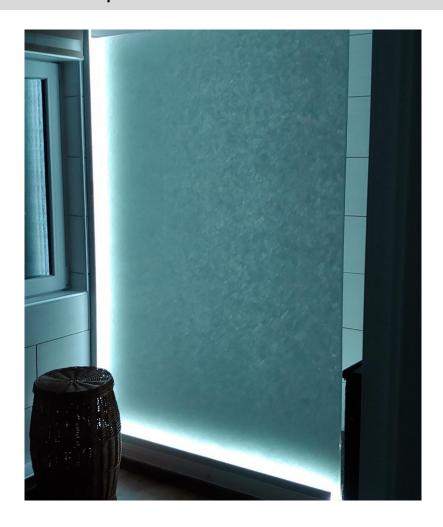




Material Applications - Bathroom



Illuminated Showerwalls – Ice Nugget doubleside polished, Creme White patinated

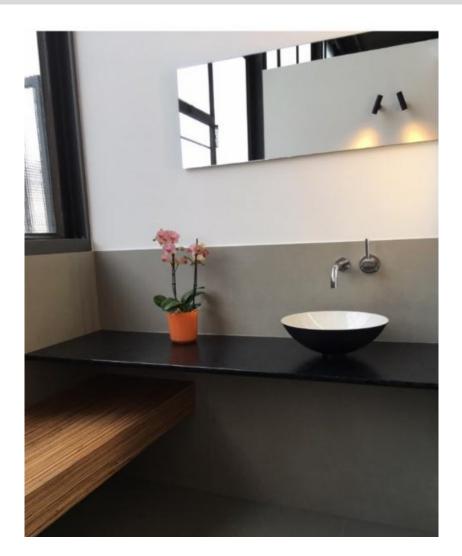




Material Applications – Bathroom



Showroom Urban Boutique Düsseldorf Black patinated | Germany







Material Applications - Countertops



Baas shower wall and bathroom shelve Ice Nugget double polished | Germany

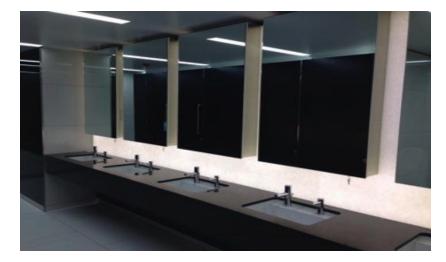


Material Applications - Bathroom

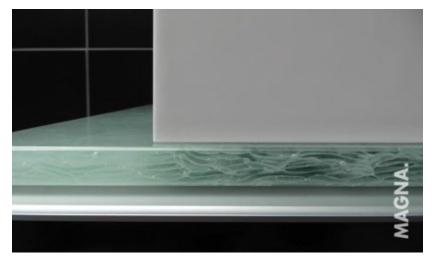


Bathroom: splashback, countertop and shower wall illuminated





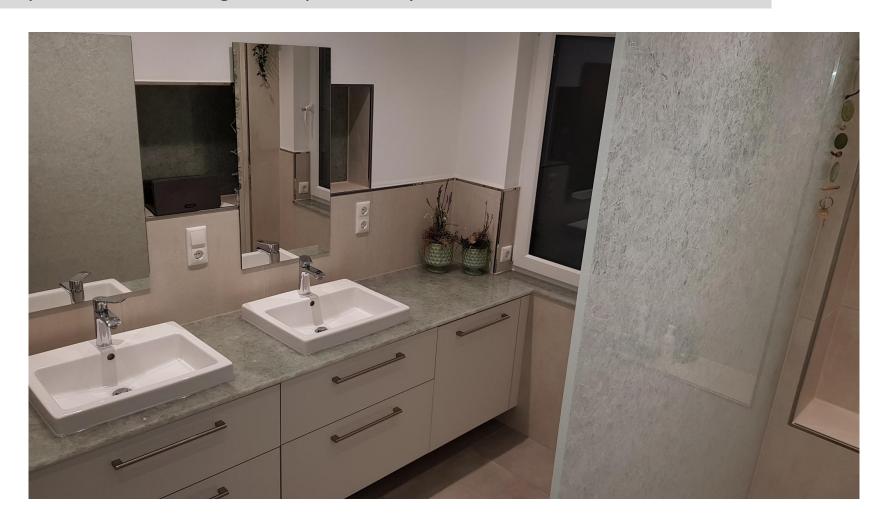




Material Applications - Countertops



Bathroom Top Light Grey and Showerwall Ice Nugget double polished @Götting Bösel | Germany



Material Applications – Bathroom Showstand



Countertop Polar White polished Masters of LXRY | Netherlands









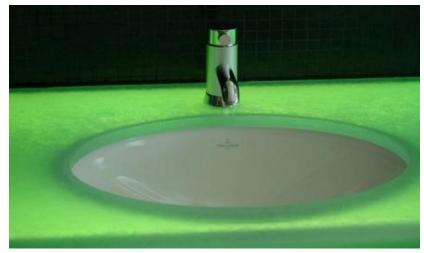
Material Applications - Bathroom



Bathroom: Jade patinated countertop with round cutouts







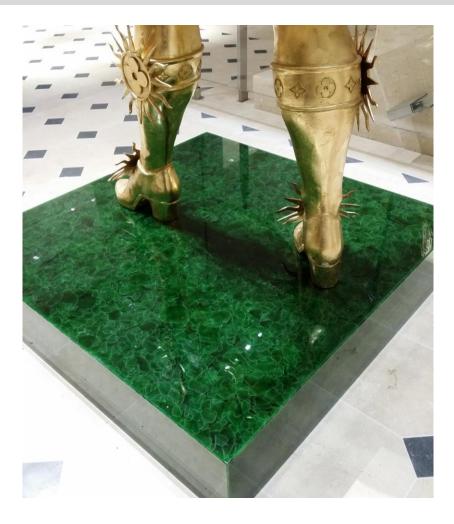


APPLICATION Floors and Stairs

Material Applications - Podest



Podest The sun king @LVMH by Ringot Green polished | Paris | France



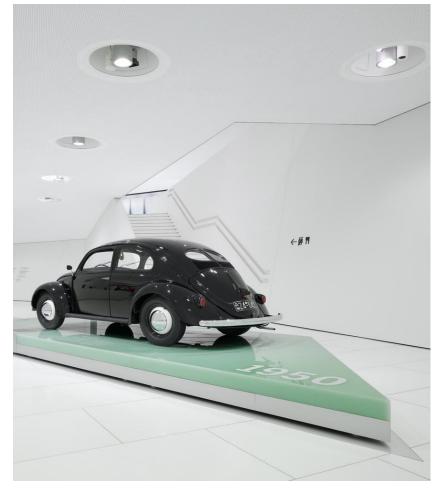


Material Applications - Podest



Posche Museum podest for Oldtimer Jade polished | Stuttgart | Germany

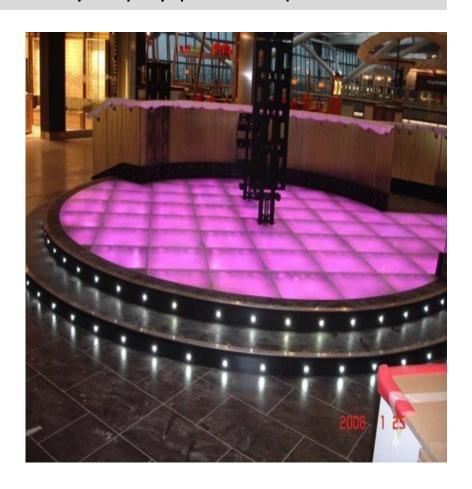




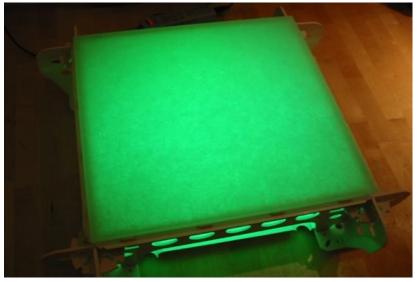
Material Applications - illuminated Flooring



London Heathrow airport:
Polar White backlit floor application
Sony Display | London | GB





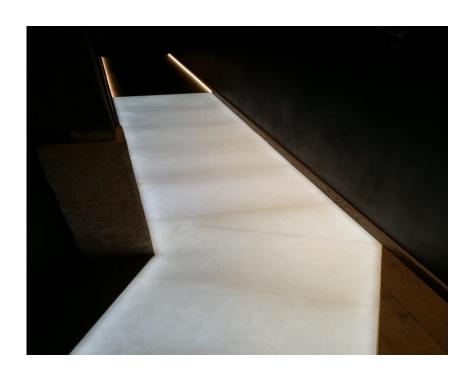


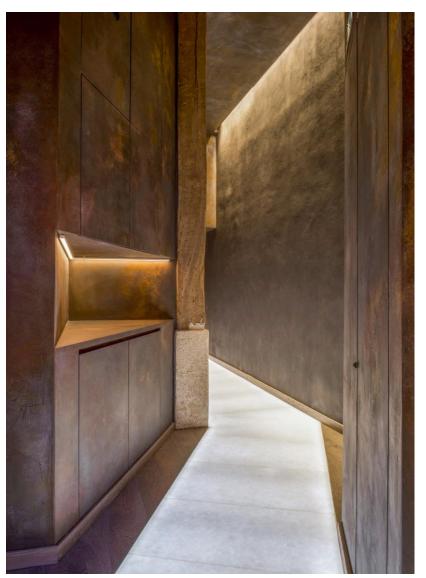
Material Applications – illuminated Flooring



Goralska Boutique by Ringot Paris Polar White patinated

- patinated Surface also suitable as a floor
- possible surface laser for slip resistance





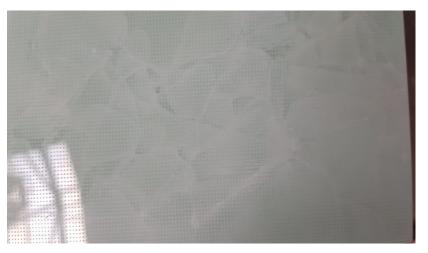
Material Features – Laser Grip slip resistance

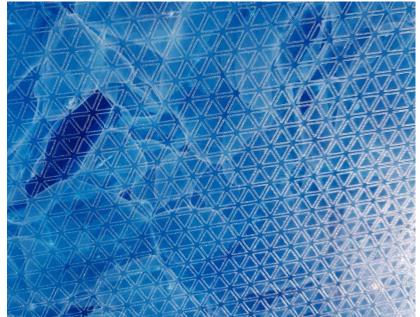


Laser Grip Flooring and Stairs

- possible on all surfaces
- Slip resistance rating up to R10
- barely visible on the surface
- Laser pattern can be customized
- stairs, floor and design objects







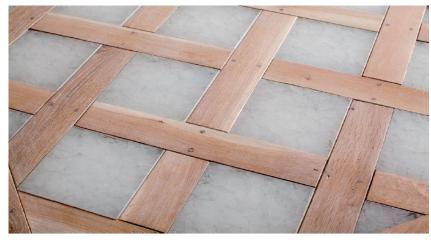
Material Applications - Flooring



Trials Parkett wood Green, Jade and Polar White polishe | Berlin | Germany







Material Applications - Flooring



Showstand Casadecor backlit floor Ice Nugget doublesided polished | Madrid | Spain

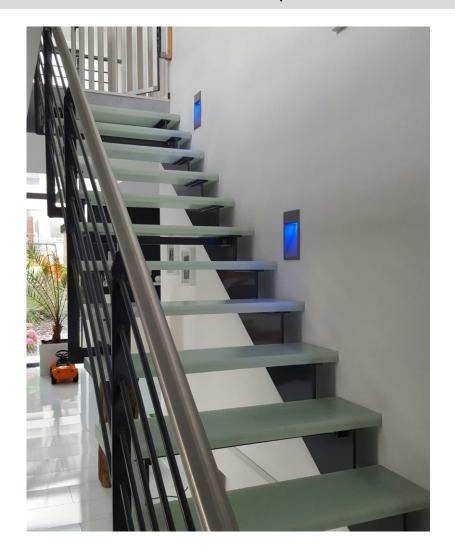


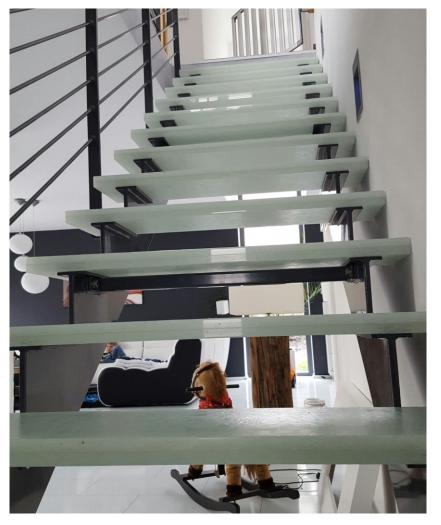


Material Applications - Stairs



Staircaise Polar White patinated doubled | Germany

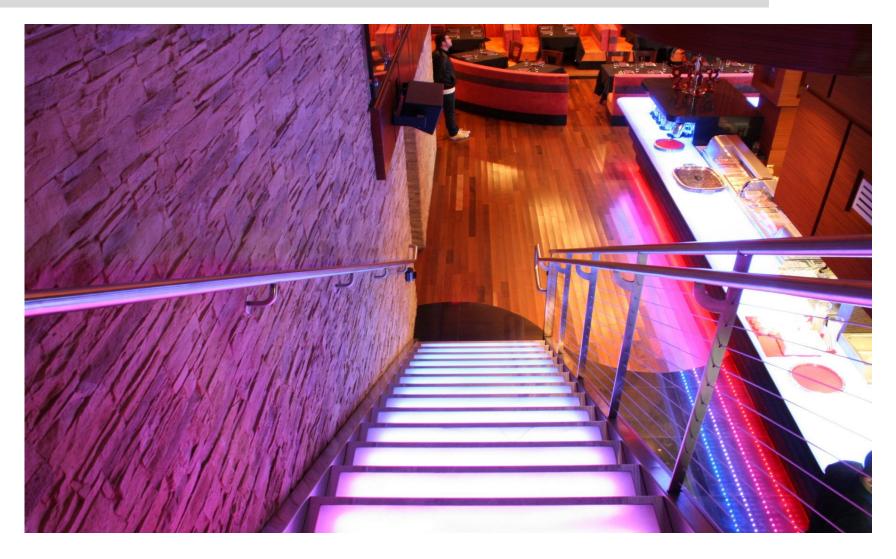




Material Applications - illuminated Stairs



Bar Stairs Polar White patinated | Miami | USA





APPLICATION Fire | Water | Sculpture

Material Applications - Fireplace



GMP-Architecture-Pavillion: Jade patinated Fireplace, interior design application | Hamburg | Germany







Kuwait Airport Watersteps for Mock-Up Jade patinated backlit



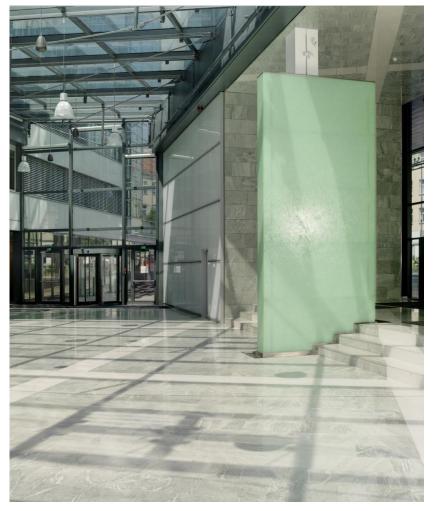






Hotel Europe Plaza - waterwall in Jade patinated | Wien | Austria

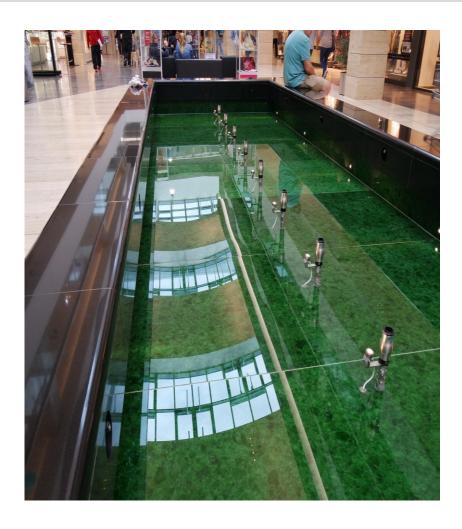




Material Applications - Fountain



Fountain Shopping Mall Green polished | Lübeck & Kiel | Germany







Material Applications - Sculpture



Taff Trail Sculpture: Jade | England





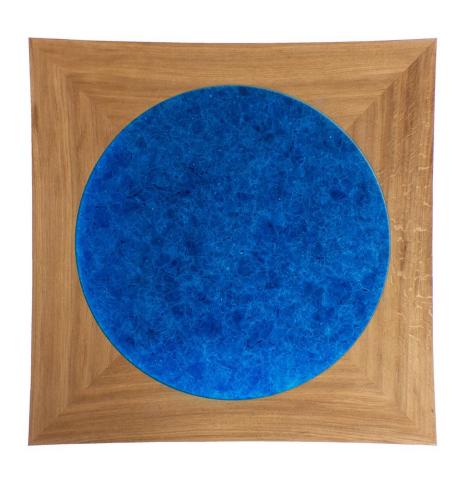




APPLICATION
Design Objects



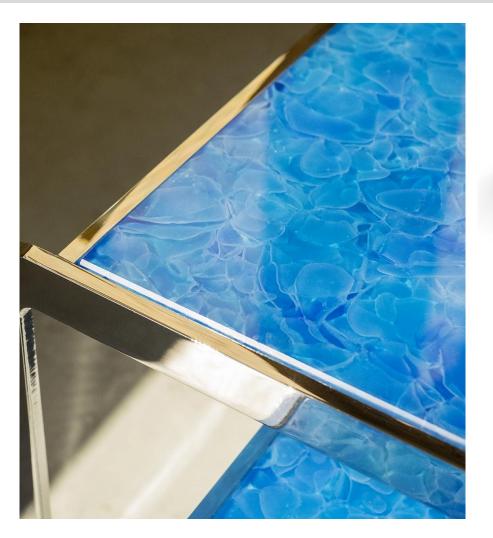
Deutsu Glaskeramik Mountain Lake Table Ocean Blue | Germany







The Elbow Table by Caussa Ocean Blue polished | Germany







Design Tables: Font Low + Font High + Font Round by Sebastian Herkner | Pulpo Germany







Tala Magma range | London | UK









Unique pieces of designers





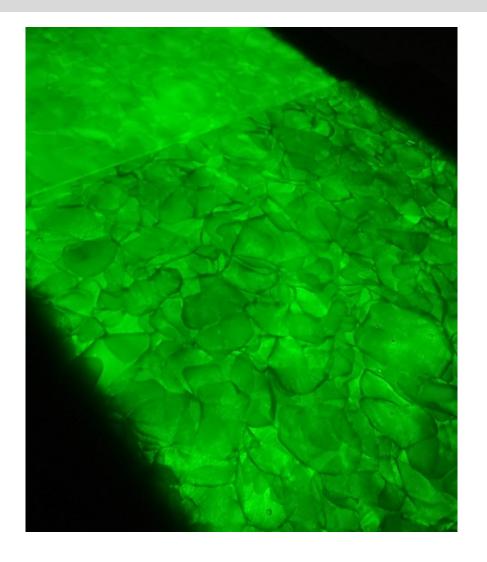




LIGHT



LED Panel - warm and cold white + RGB features









LED Panel – Company Bäder | warm and cold white





APPLICATION Interior Walls



Room seperation walls flat Treptower Park Ice Nugget double polished with anchors | Berlin | Germany

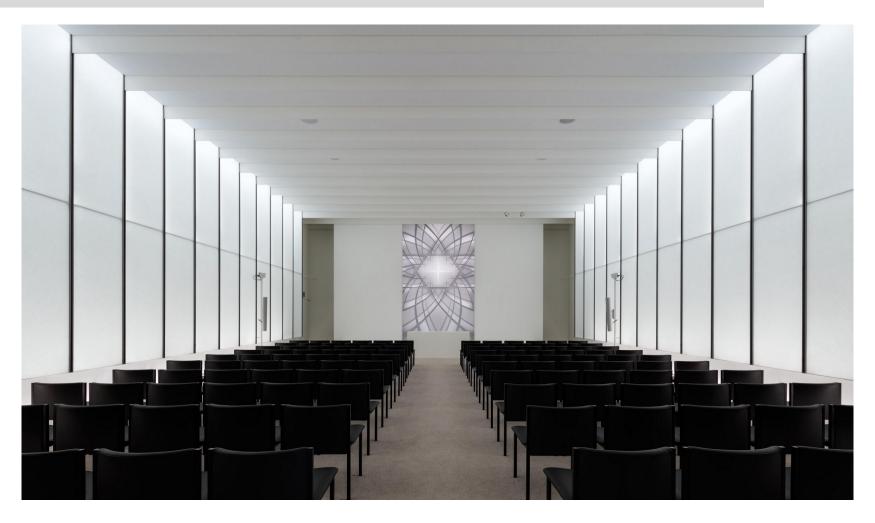






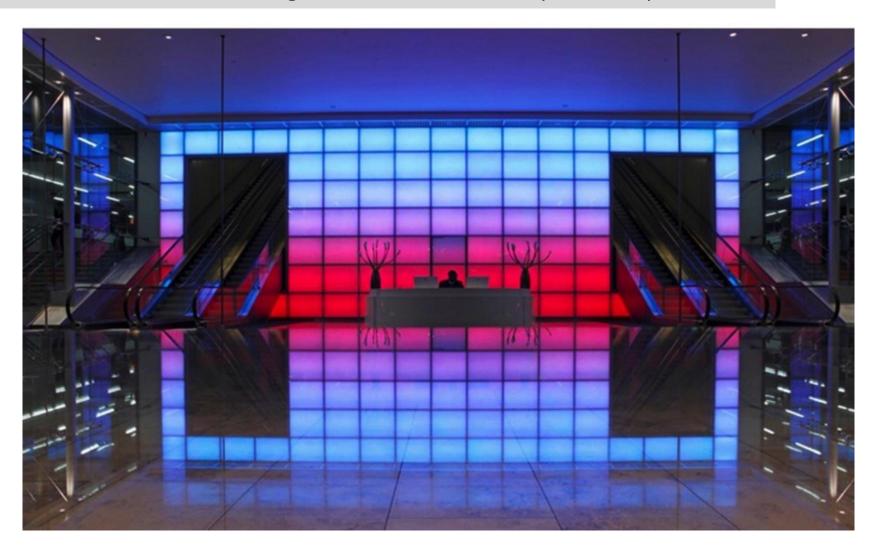


GLA Chukyo Hall, Prayer Hall Takenaka Polar White polished | Nagoya | Japan





Cannon Place Station: light wall in Polar White | London | UK





Hotel Castiglione Polar White polished backlit Wall | Paris | France

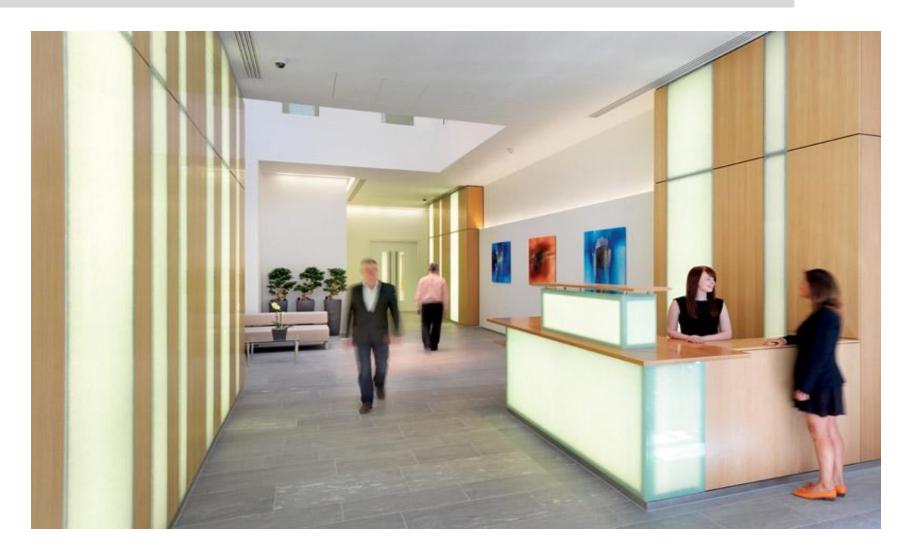






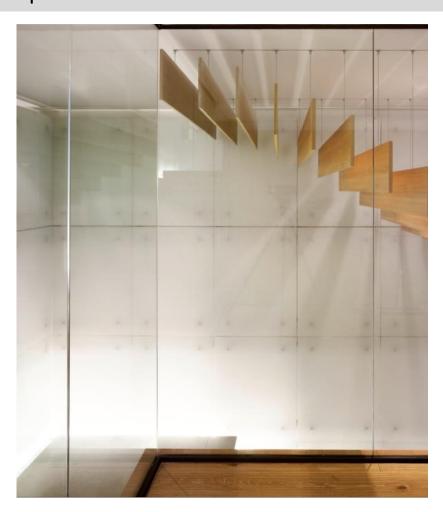


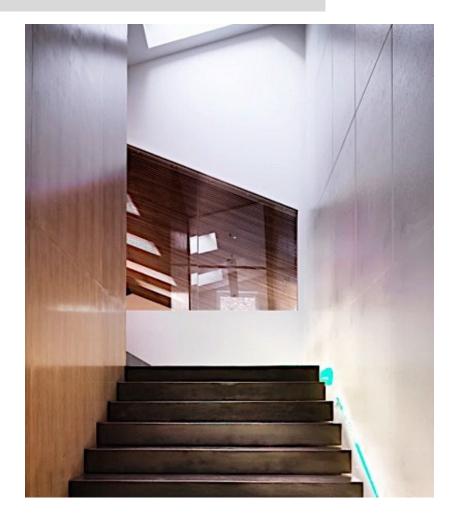
Agenfy St. Martin Shop Hunter Evans Jade polished | London | UK





Dental practice Polar White patinated Wall with anchors | Wien | Austria







Hofgeismar Chapel: interior walls in Galaxy (Creme White) polished | Germany





Seperation Wall Jewish Museum Ice Nugget double sided polished | Vienna | Austria





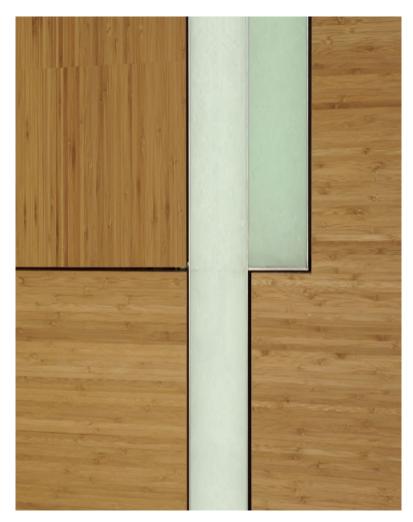




St. Georges Hospital Jade patinated | London | UK





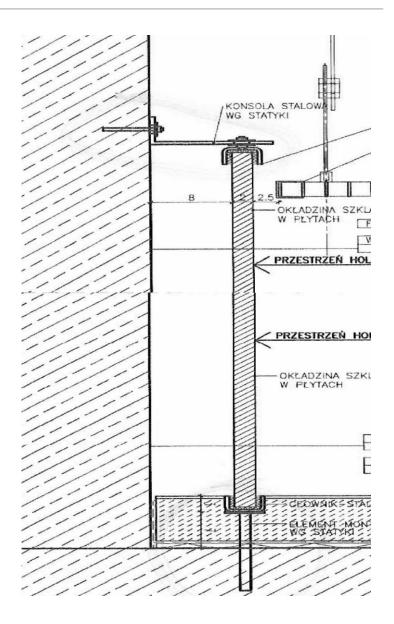




Browary Warszawskie Elevator Halls Polar White polished | Warsaw | Poland

- Installation via U-shaped profiles
- installation without visible attachment
- size of Panels 2810x1080 mm
- 500 square meters over 10 floors







Browary Warszawskie Lobby Light Grey Green polished | Warsaw | Poland



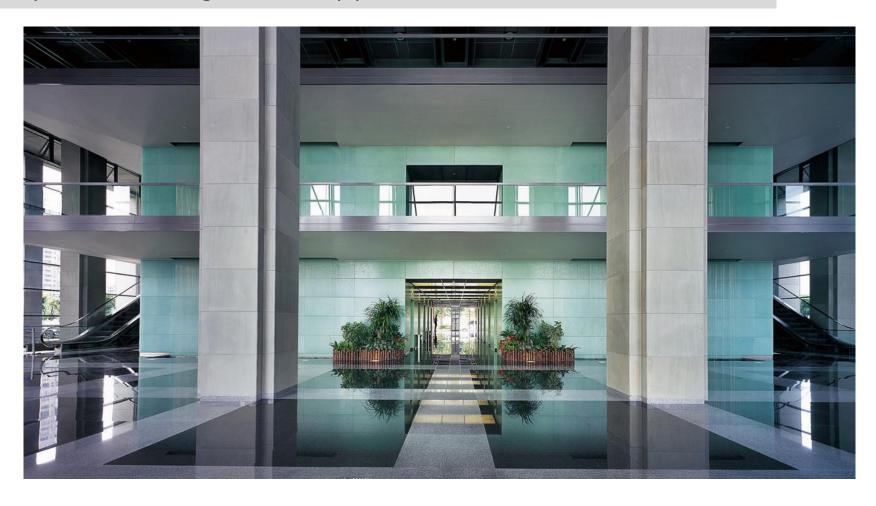






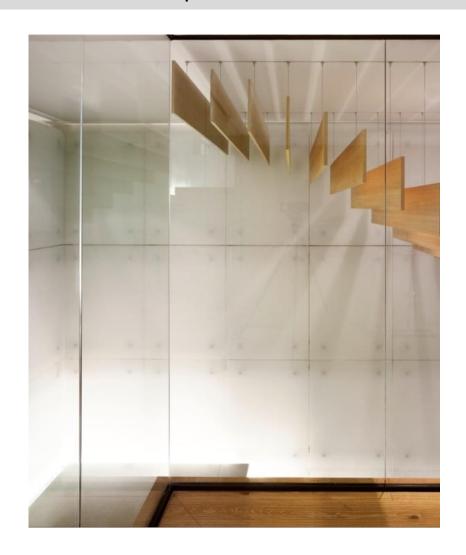


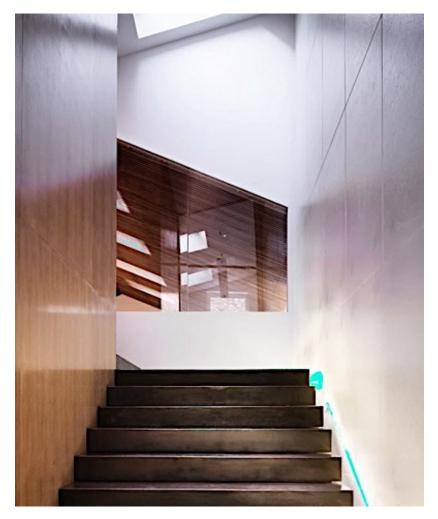
Guangzhou Office Building Elevator and Lobby Interior Jade patinated Guangzhou China | |





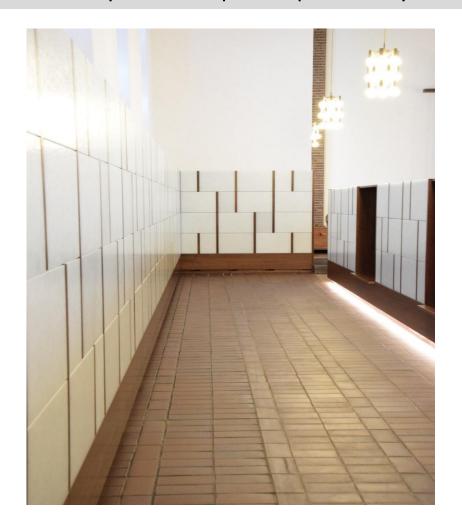
Naturalia Shop internal walls in Polar White | Paris | France







Kolumbarium church Interior Walls and grave decoration Polar White patinated | Marl | Germany





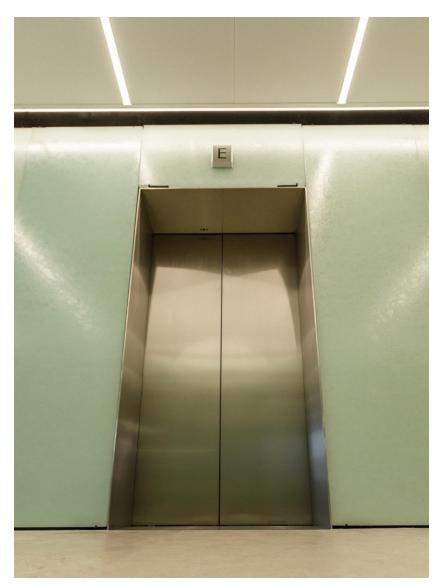




Elevator Hall Jade patinated Madrid

- wall cladding for the elevator halls of all 12 floors
- special clamp attachment system to fix the four corners of each panel
- total 175 Glaskeramik panels have been used up to a size of 2730x920 mm

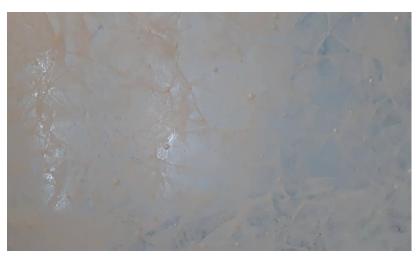






Seperation Wall to Bathroom Ice Nugget double sided polished Loft | Tallinn | Estonia









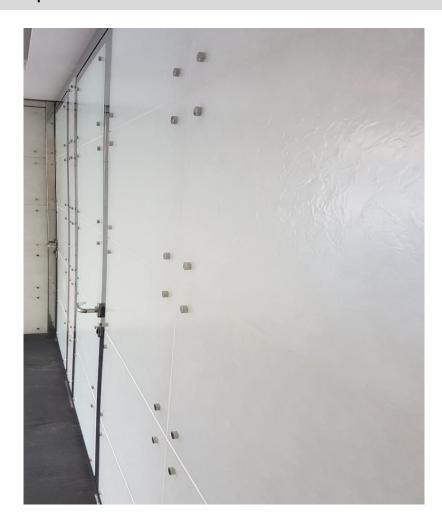
Seperation wall door naturally backlit in Polar White patinated | Czech Republic







Dental practice Polar White patinated Wall with Anchors | Wien | Austria









William Booth College Chapel Jade patinated | London | UK





Information-Box, St. Sebalds church Internal walls in Creme White patinated | Nurnberg | Germany



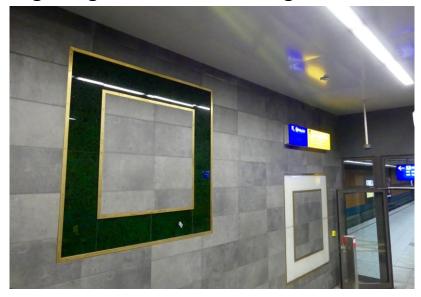


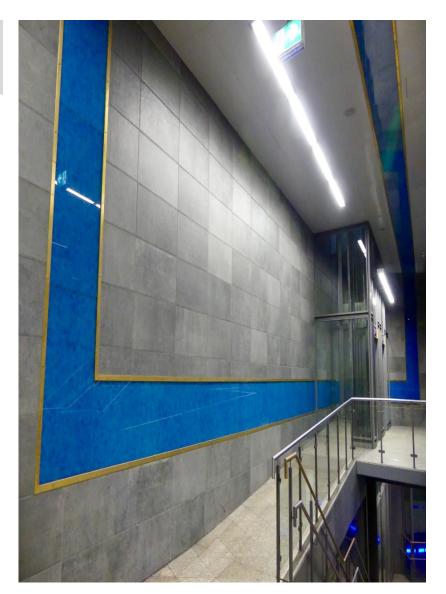




Tram station Berliner Straße | Essen | Germany

- Backside laminated safety glass with PVB or EVA technology
- Normally 16mm Glaskeramik + 1.5mm
 PVB + 6mm toughened glass
- Backup at public places, overhead glazing, balustrades, railings, stairs







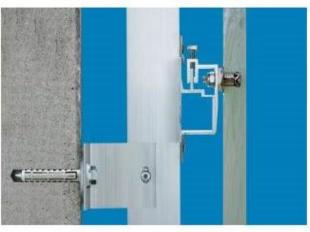
APPLICATION Facades Exterior

Standard fixiation system with Fischer anchors

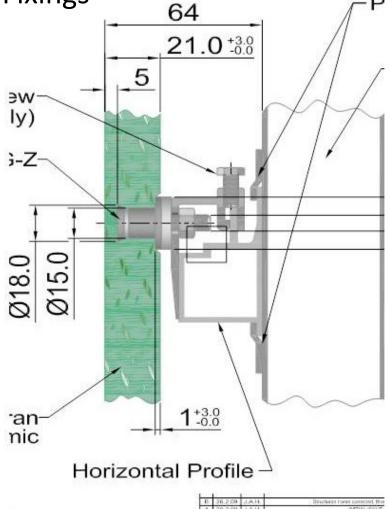












Standard fixiation system with Fischer anchors



Fischer ACT Technology - Details + Fixings

- Panels cut-to-size + anchors drilled and placed in factory Germany = premounted panel to construction site for easy installation
- ETA certification
- Frost resistance for exterior use
- UV resistance = color stability
- simple attachment





Approval body for construction products and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and Laender Governments



Designated

* according to

* Article 29 of Regulation (EU) No 305/2011
and member of EOTA
(European Organisation for Technical

* Assessment)

European Technical Assessment

ETA-16/0302 of 30 January 2017

English translation prepared by DIBt - Original version in German language

General Part

Technical Assessment Body issuing the European Technical Assessment:

Trade name of the construction product

Product family

to which the construction product belongs

Manufacturer

Manufacturing plant

This European Technical Assessment

This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of

Deutsches Institut für Bautechnik

fischer FZP-G-Z for the rear fixing of structuran glass-

Fastener for the rear fixing of facade panels made of glass-ceramics

MAGNA Naturstein GmbH Straße der Einheit 18 06179 Teutschenthal DEUTSCHLAND

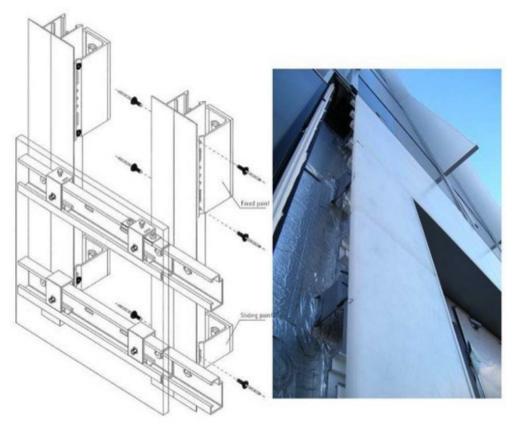
Teutschenthal, Deutschland Teutschenthal, Germany

13 pages including 3 annexes which form an integral part of this assessment

European Assessment Document (EAD) 330030-00-0601

Standard fixiation system - railings

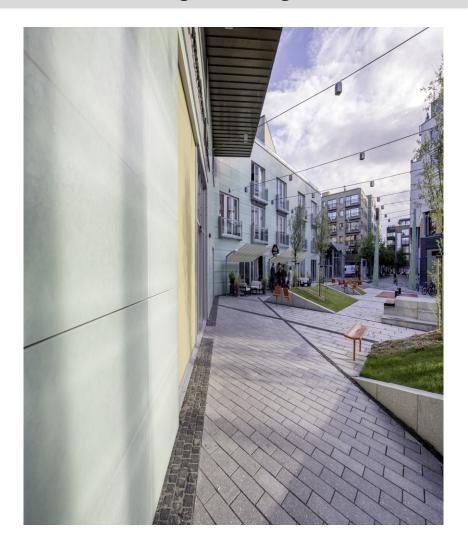








Office Building: Bassengbakken II Trondheim | Norway





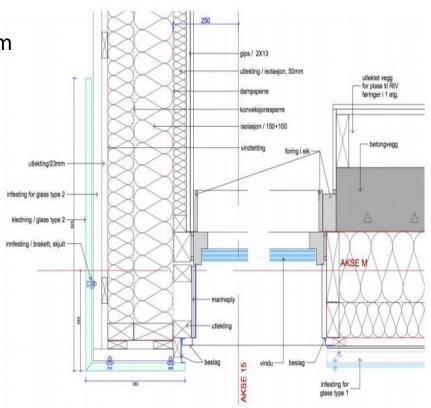


Case Study - Bassengbakken II Trondheim



Office Building: Bassengbakken II Trondheim | Norway

- positioning of the anchors 100mm from edges
- Edges of building with open miters
- heavily durable
- offering true performance
- tested certification as well as suited to both hot and cold climates
- strong against vandalisation
- impervious to staining
- almost self-cleaning in its finish





Folkwang Museum: facade in Cream White | Essen | Germany





Folkwang Museum: facade in Cream White | Essen | Germany





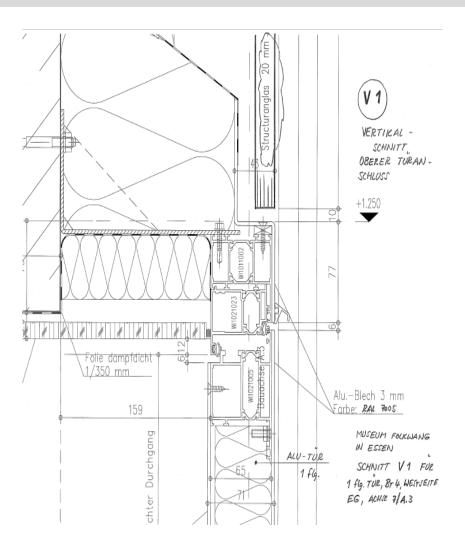




Case Study - Folkwang Museum - installation



Folkwang Museum: facade in Cream White | Essen | Germany

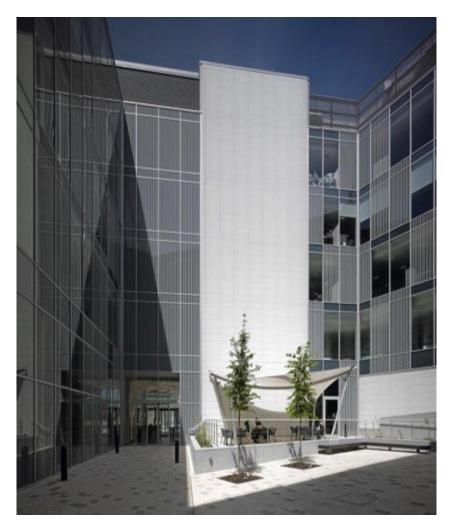


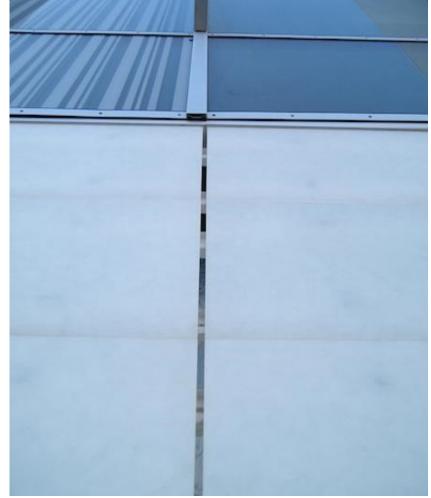






Office Building: Polar White facade | Blackpool | UK







Eye Care Centre: facade in Jade patinated | Michelfeld | Germany



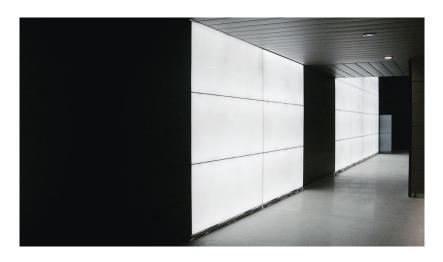


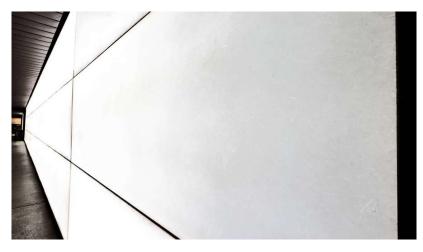
Fire station: facade in Polar White patinated | Neukirchen- Vlyn | Germany





GPI Masdar City PRT Station in Polar White patinated Abu Dhabi | Emirates











DM Market: integrated illuminated Glaskeramik® pieces in façade Schondorf | Ammersee | Germany



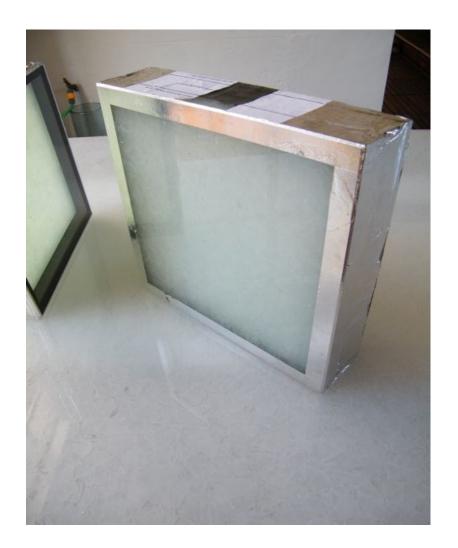








Bear Garden in Jade polished | London | Great Britian









Currybude in Polar White polished | Berlin | Germany









Bahausmuseum in Ice Nugget patinated backside polished | Weimar | Germany





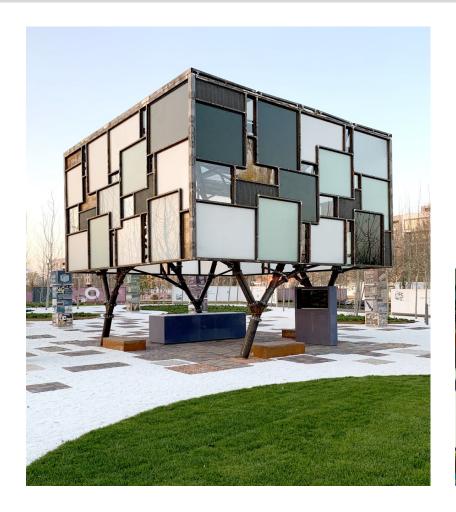




Material Applications - External Application



BuGa Recycling Pavillon Polar White, Jade, Green and Ice Nugget patinated | Heilbronn | Germany







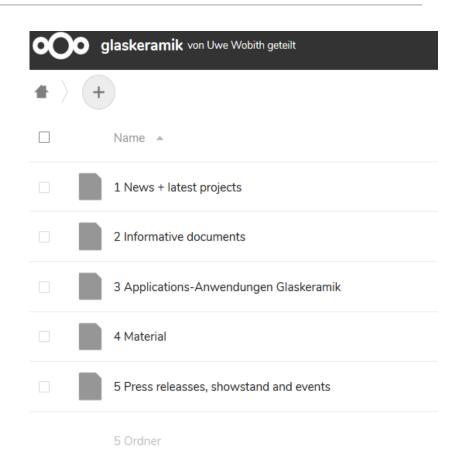




MAGNA Glaskeramik Nextcloud

- always up to date
- all data sheets, certificates, processing manual and much more
- Videos from production, material
- More than 2000 images from 250 reference projects
- Immediately an answer to almost all questions





Marketing Material – printed summary



MAGNA	MGK book objects English	A4 across 80 pages
Gleiker nier ansjects	Englisti	80 pages hardcover
MAGNA.	MGK catalogue German English	A4 up 40 pages
GLASKERAHIK IRTERIOR SON TOWN TO SUPPLY MANY BUT OF TOWN	MGK catalogue bathroom/kitchen German English	A4 across 40 pages
PLACINAL STATE OF THE STATE OF	MGK flyer bathroom concept with/without pricing German English	A4 up 4 pages
1000	MGK brochure German English	210 x 99 mm 36 pages
FARRICATION GUIDALINES HUMB ANGRE AN	MGK Fabrication guidelines German English	A4 up 36 pages



The unique way to our MAGNA Glaskeramik

Story telling set





LED Samples box big

 Incl. LED lighting, 6 samples 100x100 mm or 1 sample in 300x200 mm





Sample Boxes



• Small Box incl. 2 Samples 100 x 100 mm

Big Box incl. 6 Samples
 100 x 100 mm

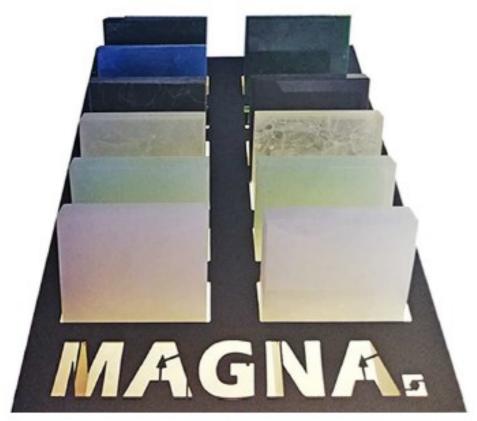




MAGNA Glaskeramik Table Display

Incl. 12 samples 100x100 mm

• 370 x 230 x 360 mm





MAGNA Glaskeramik print



- Catalogue A4
- 40 pages



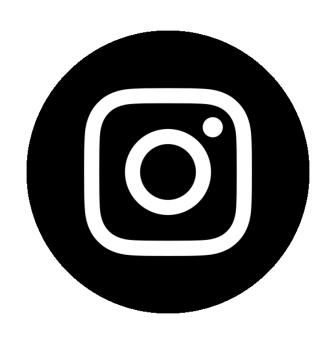
- Project book A4
- 80 pages hardcover

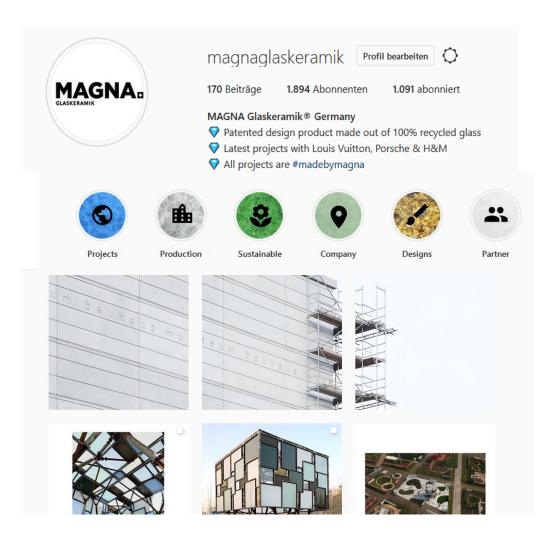


- Brochure 210 x 99 mm
- 36 pages



Social Media #MAGNAGlaskeramik | Instagram

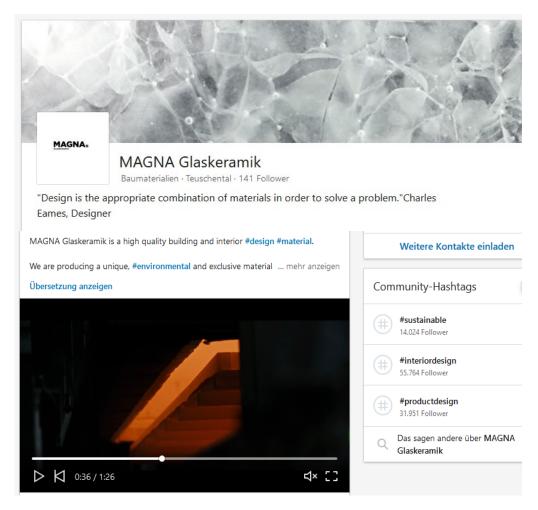






Social Media #MAGNAGlaskeramik | LinkedIn

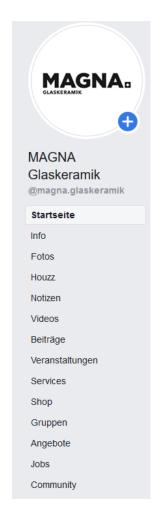


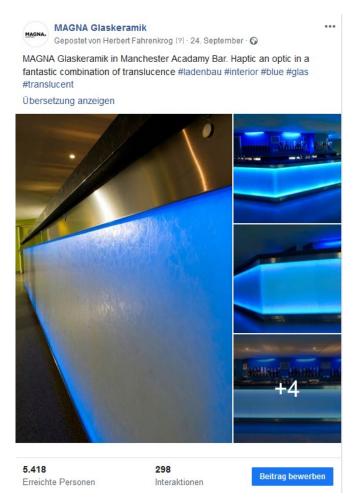




Social Media #MAGNAGlaskeramik | Facebook









Social Media #MAGNAGlaskeramik | Pinterest





MAGNA:

MAGNA Atelier - nachhaltige und einzigartige Design Möbel, Tische und Accessoires

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Leipzig, Germany

Magna Atelier ist der Online Shop für hochwertige und nachhaltige Inneneinrichtung, alle Produkte enthalten unser einzigartiges Material Glaskeramik $^{\otimes}$. Impressum

Die besten Pinnwände von MAGNA Atelier - nachhaltige und einzigartige Design Möbel, Tische und Accessoires



facades exterior MAGNA Atelier - nachhaltige und ei



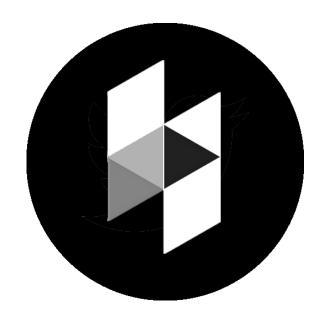
modernes Bad MAGNA Atelier - nachhaltige und ei

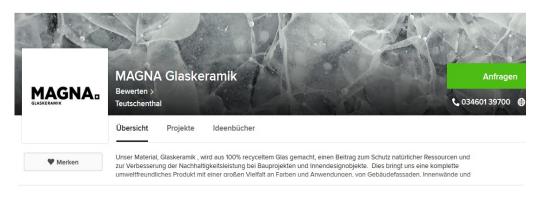


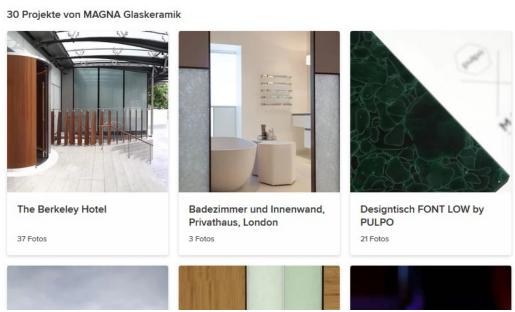
Design Tische MAGNA Atelier - nachhaltige und ei



Social Media #MAGNAGlaskeramik | Houzz





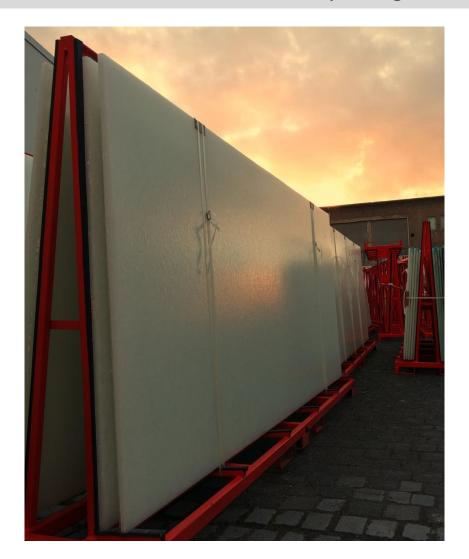




PACKAGING Cargo safety



Metal A-Frame = standard package 12 normal/10XXL salsb/frame









Wooden cheap delta-racks for small/mid-size cut-to-size works



MAGNA

Container loading









Distance holder for slabs to compensate thickness tolerance on transport





U-Profil Styropor for edge protection while loading and unloading







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THANK YOU FOR YOUR ATTENTION

MAGNA GLASKERAMIK GMBH 01|2020