Innovative Architectural Products

Solutions for Interiors and Exteriors

Formglas®

Our Story: A 50 Year Heritage Of

GFRG | Hospitality | STK Midtown | ICRAVE | New York, NY |
| GFRG contoured columns, ceiling fins and patterned feature wall

Vision, Passion And Excellence

In 1961, a company named Inservac was created through the vision and inspiration of John Brummeler, a young architect who possessed an innate understanding of form, a sharp mind for engineering, a natural curiosity for materials and strong entrepreneurial values. The company grew successfully because of John's commitment to excellence, innovation, exceeding customer expectations and building a passionate and committed team.

As technology in the commercial construction field evolved, John transformed Inservac from a manufacturer of molded composite industrial shapes into Formglas, the company that today is the respected international leader in molded architectural products. John's steady leadership, vision and practical approach to solving design and construction challenges became the underpinnings of the Formglas brand.

In early 2000, John transitioned the leadership of Formglas to a team of experienced founding employees and individuals with new ideas and experiences. He firmly believed this diverse group would keep Formglas invigorated and equipped to succeed in new markets, with renewed energy and fresh ideas. John left an indelible mark on the values and character of Formglas. His spirit and passion still fuels us. We remain committed to our founding values and are excited by each opportunity to deliver innovation and service to our customers.

Formglas' commitment to excellence is best expressed through images of the work we have completed with the many architects, designers and construction professionals we have been honored and entrusted to serve. May your next project be inspired by this brochure.

We hope to serve you soon.

John Chettleburgh
President and CEO
jchettleburgh@formglas.com

Our Defining Advantages Are

Executing your vision and delivering the promise of performance requires suppliers and construction partners with time-tested experience and dynamic core attributes which define the company and provide the tools for creative

TRUST

Formglas is financially strong and guided by a team with decades of business and project experience. Our commitment to service and performance has been proven in every economic cycle. Formglas has been the trusted partner on many large, complex and globally significant projects in over 30 countries. Regardless of the size or complexity, Formglas approaches every engagement with passion and a focus on results.

KNOWLEDGE

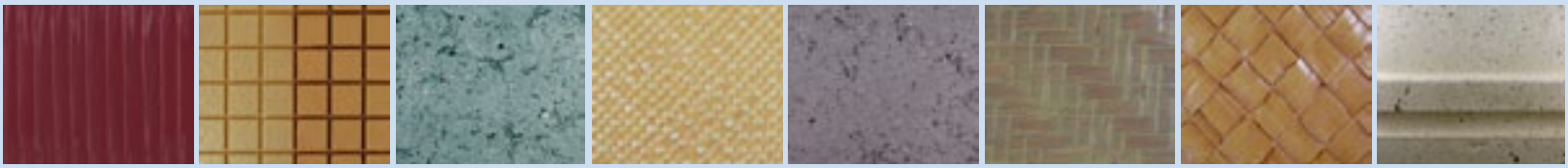
Formglas is a widely acknowledged expert and innovator in molded architectural product technology. We engage with designers and architects at the concept phase to determine the most suitable materials, production methods and execution approach. Our focus on design, aesthetics, durability, constructability and value ensures that the project vision is achieved. Formglas is equally committed to the construction teams chosen to deliver projects. We design our products to simplify and reduce installation time and offer on-site services in order to share product and installation know-how.

EXPERIENCE

No other company in our industry has a stronger, more knowledgeable team. Formglas attracts and retains the brightest talent from the fields of architecture, construction and manufacturing. They are guided by our most experienced personnel, many of whom have more than 20 years of tenure. We are passionate about serving customers and offering solutions. The collective experience of the Formglas team means that your trust is never misplaced.

INNOVATION

Ongoing investment in research and development enables Formglas to explore the limits of existing and new material technologies, enhanced manufacturing methods and opportunities to apply new technology. We leverage teams of professionals within Formglas and general industry to address the opportunities of today and tomorrow. Our reputation for innovation makes Formglas the most sought after provider of solutions for creating innovative architectural shapes and finishes to achieve the design vision.



The design possibilities offered by Formlgas

Your Tools For Creative Possibilties

architects, designers, owners and construction professionals to select capabilities. Formglas is proud to be recognized and evaluated on seven possibilities and successful project delivery.

TECHNOLOGY

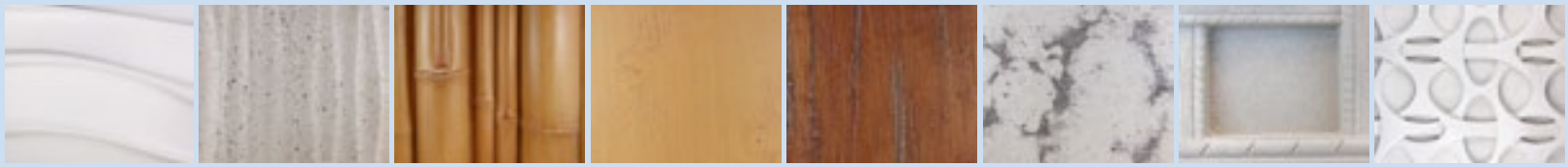
Since its inception, Formglas has used technology wherever possible to support its unrivaled service and delivery capacity. We pioneered the application of computer-aided manufacturing technology to create master patterns for architectural shapes, and to this day continue to house the industry's largest in-house 5-axis CNC machine capacity. Formglas integrated advanced 3D modeling software into its process over two decades ago. Today, we support our interaction with the design community with the exchange of models to ensure design intent and accurate BIM model creation.

QUALITY

The core raw materials used by Formglas for the creation of products originate from leading international suppliers. Formglas materials have been thoroughly tested by accredited international laboratories against applicable ASTM and other regional technical standards. Formglas designs its products for precision fit and finish, ease of handling and simplified installation. They contain recycled content, have environmentally friendly factory finishes, and are designed for minimal waste during installation. Fundamental to every finished Formglas component are the properties of strength, light weight, fine details and finishes, and non-combustibility.

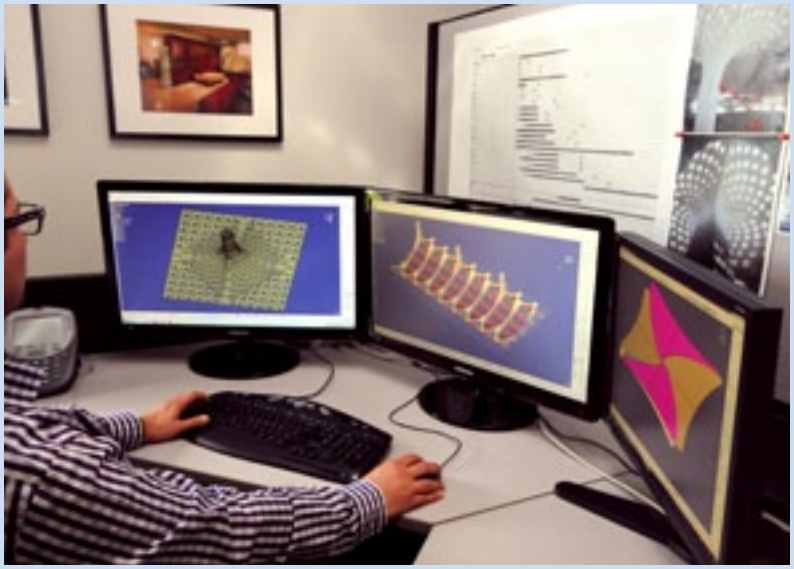
REACH

In an industry where most suppliers are constrained by a local or regional reach, Formglas has demonstrated experience on an international scale for projects large and small. We support a global network of manufacturer representatives with an experienced in-house support team who engage with architects, designers, owners and construction professionals in person each day. Formglas understands local market dynamics around the world, and can recommend trusted suppliers and contractors to execute a project. Whether it's a single project, or a construction or renovation program involving hundreds or thousands of locations, Formglas' track record is proven globally.



materials are limited only by your imagination.

Shaping Possibilities Through



Our process is the essence of what we call Shaping Possibilities. Through integral member of the design and construction team. On every project, we commitment. We apply our experience and focus on quality at every step.

CONCEPTUAL CONSULTATION

Formglas works with architects and designers to understand their vision and help bring concepts to reality. We discuss material and installation options, technical performance attributes, provide details, and use 3D software when required to validate or streamline a design approach. Our expert material team will produce custom samples for review, and discuss any requirements to produce a site or factory mock-up. This process results in a project specification approving a Formglas material to be used for the creation of interior or exterior architectural elements.

BID SUPPORT & COST ESTIMATION

Formglas follows the project to the tender stage, and works closely with bidding contractors to examine the complete scope of work. We will share best practices for installation approach, opportunities to reduce time and cost, and the availability of Formglas site service options if desired by the contractor. Our estimating team will prepare a thorough quotation, document potential value-engineering options, and provide general details on manufacturing lead time and schedule.

PROJECT LAUNCH

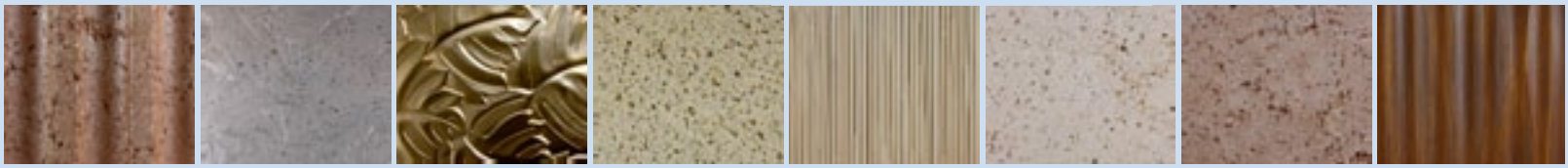
After commercial terms are finalized, project scope and delivery schedules are finalized, Formglas works in concert with the client and architect to coordinate the process for drawing approval, custom sample approval, mock-ups, manufacturing and delivery sequence. A Formglas Project Manager oversees the project from beginning to end.

TECHNICAL & AESTHETIC APPROVAL

Formglas engages closely with the installing contractor, and designer or architect on all approvals required to commence manufacturing. Comprehensive shop drawings show part and installation details are created in AutoCAD. 3D models may be shared for further clarity or for use in building information models. Engineering stamps are obtained when required, and all drawings and samples are signed off by the architect before production begins.

MOLD FABRICATION & QA

Before manufacturing begins, patterns are modeled using advanced 3D software and cut by 5-axis CNC machines to ensure accuracy, crisp details, and rapid production. Where artistic enrichments are required,



Formglas materials are proven to perform. Rigorous testing by accredited laboratories

People, Process And Technology

the integration of people, process and technology, Formglas becomes an engage with professionalism, enthusiasm, creativity, accountability and

experienced sculptors will produce the pattern with traditional and modern technologies. Before patterns are used to create molds, they undergo rigorous quality assurance (QA) to ensure dimensional accuracy and the required finished surface. A range of composite materials are used in the production of molds to ensure dimensional stability, detail reproduction, cost effectiveness and production efficiency.

PROTOTYPE CASTING & QA

Before molds are released into manufacturing, prototype parts are cast and an internal mock-up is created. A cross-functional team will carefully inspect these parts to ensure fit and adherence to specifications. Further verification is performed as manufacturing progresses.

PRODUCTION

Depending on material type, parts are made by a multi-step hand or spray lay-up process using gypsum, cement or composite resins, and are enhanced by pigments, aggregates and polymers for aesthetics and long-term durability. Parts are reinforced with recycled glass fibers, steel or plastic, or foam core which results in a high-strength, lightweight and thin casting with fine aesthetic detail.

FINAL QA & FINISHING

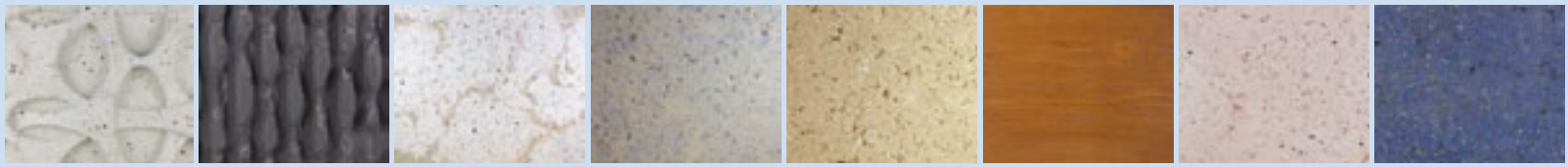
All completed parts are individually inspected and final finishing steps are performed. Many Formglas materials are offered pre-finished and may undergo the additional step of having primer, paint or washes applied through traditional or proprietary methods. A thorough final inspection is performed on each part prior to shipment.

DELIVERY

Formglas coordinates with the job site on delivery schedule and access. Finished components are shipped in crates to ensure protection during transit and at the job site, while taking into account customer requirements. Formglas coordinates the entire process whether shipment is by land, sea or air.

INSTALLATION SUPPORT

Formglas is available to installing contractors for support throughout installation. When required, Formglas offers services on-site to ensure smooth project execution. For customers who engage Formglas on a multi-site construction and renovation program, Formglas offers a full supply and install solution.



ensures compliance with ASTM and other local and international technical and building standards.

A Partner In Sustainable

Formglas works closely with architects and designers to develop and design solutions for projects applying for LEED® certification. We have been a proud contributor to many LEED® building projects around the world.

And Innovative Design

Sustainable construction is about accountability for our environment and a commitment to creating healthy work and living spaces. Our alignment with these principles is evident in several ways.

- **Our choice of materials** used in the creation of our products are of the highest quality. We maximize the use of recycled and low-emitting material wherever possible. We prefer materials that have been responsibly extracted and processed by suppliers who have third-party-verified supply chain optimization programs.

- **Our internal operations team** maintains a continuous focus on energy and material savings. Our main manufacturing facility was designed to create a streamlined footprint with a roof that brings natural light to the production floor, thereby reducing energy consumption. Process water is filtered and recycled where possible for use in finished products and other operational purposes. And, although waste and scrap in our fabrication process is relatively small, it is closely measured, recyled or internally reused.

- **Our products and solutions provide broad benefits** when used in "green construction". Made to size, there is virtually no waste in their installation. Formglas products contain low or VOC-free emitting materials and coatings. In some applications, they can be designed with an eye for reuse in future renovations. And, perhaps the most overlooked benefit of Formglas materials is that they require less supportive framing than traditional material assemblies.

Ask Formglas how its products may support the following LEED® credit categories:

Recycled Content
Low Emitting Interiors
Interiors Life Cycle Impact Reduction
Building Product Disclosure and Optimization: Sourcing of Raw Materials
Building Product Disclosure and Optimization: Material Ingredients
Acoustical Performance
Innovation
Regional Priority Credits

More Online

Innovative Materials: Your

GFRG | For Interiors

FINISH: PAINT READY | **SURFACE:** 3D OVAL- CLOSED | **SAMPLE CODE:** 98129

Formglas was the first in North America to produce GFRG, and is widely recognized as the global leader in creating traditional, contemporary, simple and complex architectural elements with this versatile material.

Formglas Glass Fiber Reinforced Gypsum (GFRG) is a non-combustable 'thin cast' alpha gypsum. It is commonly supplied with a smooth, primer-ready surface for finishing on site, or it can be factory-finished depending on the specific application. Formglas is able to cast GFRG in a virtually unlimited range of patterns and textures which allow for the creation of a broad array of interior shapes and architectural elements.

Technical Data

Samples Online

Woodgrane™ | For Interiors

FINISH: DANISH WALNUT STAIN | **SURFACE:** OAK GRAIN | **SAMPLE CODE:** 98132

Woodgrane™ allows architects and designers to incorporate elements with a natural wood look and feel into interior spaces, with the benefits of non-combustibility, sustainability, and design flexibility.

Woodgrane™ is an exciting alpha gypsum based material that replicates varieties of wood including mahogany, oak, walnut, teak and pine. It is pre-finished by a unique method of applying low VOC stains and washes that accentuate the textural detail and depth of the molded grain. Non-combustible Woodgrane™ parts may be cast in a wide range of shapes allowing for design possibilities that may not be practical when using real wood.

Technical Data

Samples Online

QuarryCast® | For Interiors

FINISH: BOISE BUFF | **SURFACE:** STANDARD | **SAMPLE CODE:** 98005

QuarryCast® enables architects and designers to economically incorporate elements with a natural stone look and feel into their design of interior spaces, without the drawbacks of weight and installation cost.

QuarryCast® is a durable, non-combustable, integrally-colored pre-finished material incorporating natural aggregates and minerals into an alpha gypsum base. It is offered in a standard palette of natural colors and stone textures and finishes including varieties of limestone, sandstone, Stuc Pierre, and coral stone. QuarryCast® can also be customized to suit a specific design intent.

Technical Data

Samples Online

Concreet™ | For Interiors

FINISH: CONCRETE GREY | **SURFACE:** PLANKING | **SAMPLE CODE:** 98113

Concreet™ enables architects and designers to introduce contemporary concrete finishes and features into interiors with ease.

Concreet™ is a system of non-combustable light weight, pre-finished alpha gypsum based panels and elements that simulate poured-in-place concrete. It is used for interior feature walls, beams and column cladding and supplied in easy-to-handle and install components that require only conventional substrate and light gauge framing. This allows designers to introduce contemporary concrete finishes where desired.

Technical Data

Samples Online

Interior or exterior, Formglas materials solve technical challenges,

Inspiration For Creativity

MetalCast® | For Interiors

FINISH: BRASS | **SURFACE:** DECORATIVE TRIM | **SAMPLE CODE:** 98137

MetalCast® is a proprietary metallic composite material used as an economical alternative to conventional metal castings. The beauty of its finish is equal to or surpasses that of conventional metal castings.

MetalCast® is a proprietary, Class A fire and smoke rated composite material featuring a metal finish face and an alpha gypsum backup layer. Factory-finished architectural elements are buffed to a lustrous sheen and present natural color variation and a soft glow that is akin to an antique, buffed or burnished cast metal. MetalCast® is offered in a variety of standard finishes and is commonly chosen for distinctive feature elements.

Technical Data

Samples Online

FRP | For Interiors or Exteriors

FINISH: SKY GREY - PAINT READY | **SURFACE:** WAVE | **SAMPLE CODE:** 98130

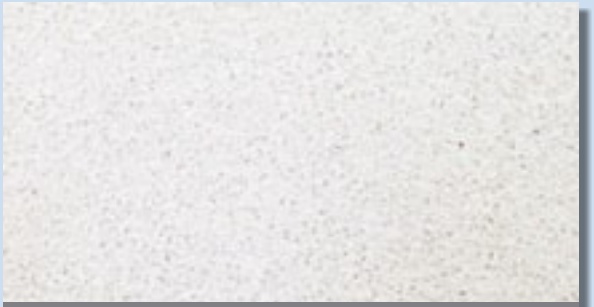
Formglas FRP is a highly versatile, economical, lightweight and very strong material that provides exciting design possibilities in a wide range of interior and exterior applications.

Formglas FRP is a thermoset plastic composite made from polymer resins, organic fillers, and glass fiber reinforcement that achieves a high level of strength. It is a Class A fire and smoke rated product suitable for a range of exterior and interior applications including architectural elements, signage or decorative cladding. It may be supplied in an endless range of custom colors, and cast smooth, textured or with patterns.

Technical Data

Samples Online

CorniceStone® | For Exteriors



FINISH: CREAM | **SURFACE:** FINE TEXTURE | **SAMPLE CODE:** 98118

CorniceStone™ is an exterior composite material that provides tremendous flexibility by introducing decorative elements to exteriors in new construction or renovation.

CorniceStone™ is an FRP composite made with natural aggregates and pigments to resemble limestone. This lightweight Class A fire and smoke rated product is ideal for exterior cornices, column cladding, panels, trim details and spandrels in both new construction and renovation. CorniceStone™ is available in two standard textures and a range of colors, and is installed with minimal lifting assistance and jobsite disruption.

Technical Data

Samples Online

GFRC-L | For Exteriors

FINISH: WHITE SANDSTONE | **SURFACE:** DECORATIVE TRIM | **SAMPLE CODE:** 98091

GFRC-L is an alternative concrete-based composite material ideal for small to medium sized panels and architectural elements where light weight properties, durability and simplified installation are desired.

Formglas Glass Fiber Reinforced Concrete Light (GFRC-L) is a non-combustable composite building material consisting of Portland cement, advanced polymers, sand, pigments, and glass fiber reinforcement. The fiber used in GFRC-L reinforces the concrete to provide high flexural strength, making it suitable for thin-wall casting applications where traditional steel-framed GFRC, or cast stone, may be an over-engineered option.

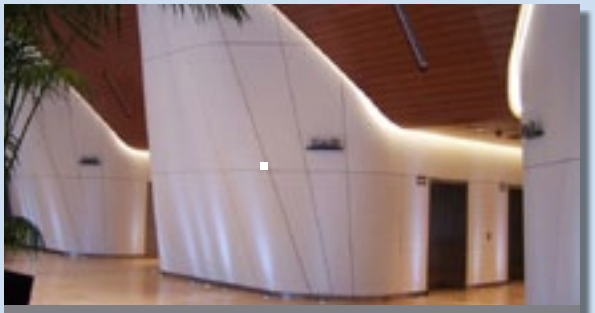
Technical Data

Samples Online

accelerate construction, reduce cost and enhance appearance.

Industry Know-How

Commercial



RBC CENTRE LOBBY | KOHN, PEDERSON, FOX; BREGMAN & HAMANN | TORONTO, ON

Designers turn to Formglas for materials that create inspiring interior and exterior commercial spaces. Distinctive lobbies, elevator corridors and tenant entries are just some of the areas where Formglas supports the execution of design intent, reduces installation time and ensures peak performance.

Representative Projects:

- RBC Financial Group | Canada
- Goldman Sachs | USA
- Pepsico | USA
- Ernst & Young | USA
- SAP | USA
- Corus Entertainment | Canada
- NBC | USA
- Saudi Aramco | Saudi Arabia

Retail

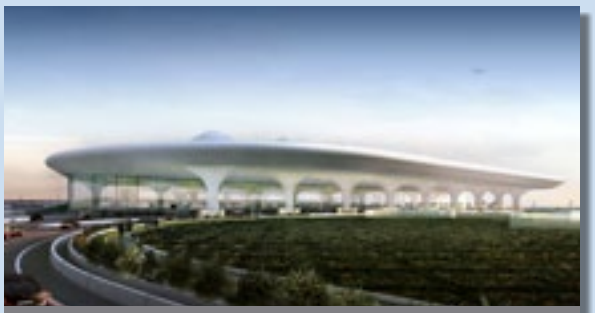
MIZU SALON BOSTON | NIALL MCLAUGHLIN ARCHITECTS | BOSTON, MA

For decades, Formglas has been the trusted choice of global brands to provide unique and durable materials that enrich customer experiences. Consistent and practical solutions along with a proven record for supporting ongoing multi-site construction programs is what Formglas is well known for.

Representative Projects:

- Brooks Brothers | International
- Burberry | International
- Zara | North America
- The Gap | International
- West Edmonton Mall | Canada
- Yorkdale Shopping Centre | Canada
- Macy's Herald Square | USA
- My Zeil | Germany

Transportation



MUMBAI INTERNATIONAL AIRPORT | SKIDMORE, OWINGS & MERRILL (SOM NEW YORK) | MUMBAI, INDIA

World class airports and other transportation facilities choose Formglas for both its products that stand the test of time, and its track record of meeting critical schedules regardless of scope complexity.

Representative Projects:

- Mumbai International Airport | India
- Toronto International Airport | Canada
- JFK Airport Delta Terminal | USA
- Philadelphia International Airport | USA
- King Fahd International Airport | Saudi Arabia
- Dubai Metro | UAE
- Dublin Airport | Ireland
- Hong Kong Airport | China
- Miami International Airport | USA
- Singapore Transit Authority | Singapore

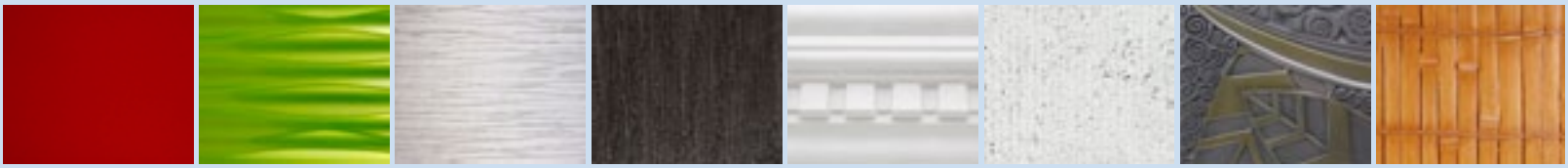
Institutional

HAMAMATSU BRIDAL CHAPEL | SPOT LTD. | JAPAN

Investment of public funds demands that institutions such as hospitals, court houses and schools incorporate enduring materials that provide long-term value and durability. Formglas materials are a proven solution.

Representative Projects:

- University of Leipzig | Germany
- United Nations Secretariat | USA
- Hamamatsu Chapel | Japan
- St. Catherine of Siena | Canada
- Helen Devos Children's Hospital | USA
- Hospital for Sick Children | Canada
- Oklahoma State University | USA
- Duval County Courthouse | USA
- Boston Federal Courthouse | USA
- St. Mark Coptic Orthodox Church | Canada



Trusted on 5 Continents

Hospitality

STK MIDTOWN | ICRAVE | NEW YORK

Feature walls, ceilings and elements that provide distinct aesthetics, durable performance and pleasurable environments have made Formglas a leader in products used to create restaurants, lounges, convention centres and hotels of distinction.

Representative Projects:

The Atlantis | Bahamas & UAE
Marriott Hotels | USA
Washington Convention Centre | USA
Burj Al Arab | UAE
The One Group | USA
Hyatt Regency Monterey | USA
The Koi Group | USA
McDonald's | USA
Trump International | USA
Four Seasons Hotel | Japan

Gaming

NIAGARA FALLS CASINO | DOUGALL DESIGN ASSOCIATES INC. | NIAGARA FALLS, ON

Formglas is the gaming industry's top supplier of decorative molded architectural shapes. We enrich gaming spaces across North America, South America, Europe and Asia with our full spectrum of materials.

Representative Projects:

Borgata Casino | USA
The Venetian | Macau
Luckia Casino | Peru
Marina Bay Sands | Singapore
The Wynn Casino | USA
Foxwoods Resort Casino | USA
Niagara Fallsview Casino | Canada
Casino Admiral Prater | Austria
Casino Mexico | Mexico
Grand Casino Baden | Switzerland

Arts & Culture

FOUR SEASONS CENTRE FOR THE PERFORMING ARTS | DIAMOND + SCHMITT ARCHITECTS INC. | TORONTO

The integration of design and acoustical performance are fundamental to the creation of exceptional performance spaces. Formglas provides both form and function to performance halls and cultural spaces internationally.

Representative Projects:

The Barnes Foundation | USA
Metropolitan Museum of Art | USA
Royal Ontario Museum | Canada
The Jackie Gleason Theater | USA
Levoy Theater | USA
Aga Khan Museum | Canada
Winspear Opera House | USA
The EPCOR Centre | Canada
The Four Seasons Centre | Canada
Kuala Lumpur City Theater | Malaysia

Marine

CARNIVAL SPIRIT CRUISE SHIP | JOSEPH FARCUS ARCHITECT P.A | FINLAND

Formglas materials are tested and certified for IMO compliance by Lloyd's Register for use in marine applications. Our products are chosen by cruise ship and private yacht builders around the globe.

Representative Projects:

Disney Cruise Line
Carnival
Princess Cruises
Regent Seven Seas Cruises
Norwegian Cruise Lines
Royal Caribbean Cruise Lines
Holland America
Seabourn

yet introduce exciting elements to interior and exterior spaces.

Defining Architectural Features

GFRG | Hospitality | STK Midtown | ICRAVE | New York, NY |
| GFRG contoured columns, ceiling fins and patterned feature wall

That Enrich Interior Spaces

Form Lasting Impressions With Bold

MetalCast® | **Commercial** | Credit Suisse Office Lobby | RTKL Associates Inc. | Miami, FL |
| MetalCast® copper veneer panels with brick pattern

And Dynamic Patterns And Finishes

Innovative Material Systems That

Concreet™ | **Hospitality** | Asellina Ristorante | ICRAVE | New York, NY |
| Fluted Concreet™ feature wall system

Create Fresh Contemporary Spaces

Concreet™ | **Hospitality** | One Restaurant | ICRAVE | Atlantic City, NJ |
| Concrete grey Concreet™ GFRG planked veneer feature wall

Seamlessly Blend Creativity,

Woodgrane™ | **Hospitality** | Reflections Cafe, Harrah's Resort | Westar Architectural Group | Atlantic City, NJ |
| Walnut stained Woodgrane™ curved feature ceiling components with a subtle wood grain texture

Sustainability And Constructability

Acoustical Performance In Concert

GFRG | **Arts & Culture** | Four Seasons Centre for the Performing Arts | Diamond + Schmitt Architects Incorporated | Toronto, ON |
| GFRG sound reflecting compound curved balcony cladding

With Fine Visual Aesthetics

GFRG | **Hospitality** | Walter E. Washington Convention Center | TVS Design | Washington, DC |
| Suspended GFRG ceiling elements

Cutting Edge Design. Exceptional Planning

GFRG | **Transportation** | Chhatrapati Shivaji International Airport | Skidmore, Owings & Merrill (SOM New York) | Mumbai, India |
| Suspended GFRG ceiling elements and molded columns

CHHATRAPATI SHIVAJI INTERNATIONAL AIRPORT

TERMINAL T2 | MUMBAI, INDIA

PROJECT SCOPE HIGHLIGHTS:

LEED Gold Project

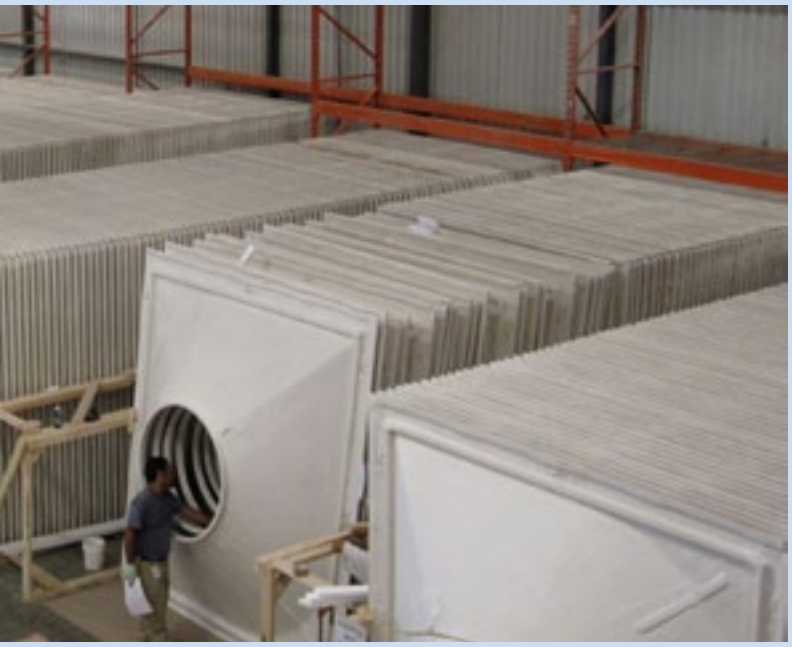
Scope: ..... Ceiling and 19 Mega Columns
Area: ..... 371,612 m^2 ⇆ 4,000,000 ft^2
Roof: ..... 283,279 m^2 ⇆ 3,049,200 ft^2
Total Workforce: ..... 12,000 people
Ceiling Area: ..... 38,000 m^2 ⇆ 401,000 ft^2
Standard Coffer: ..... 2.80 m x 2.70 m ⇆ 9'-4" x 9'
Largest Single Panel: ..... 6.20 m x 2.50 m ⇆ 20' x 8'-3"
Capital Assembly: ..... 326 panels from 163 molds
Typical Columns: ..... 15.00 m ⇆ 49 ft. high
Tallest Columns: ..... 4 Levels / 32.50 m ⇆ 106 ft. high
Featured on 1-Hour episode of 'Build It Bigger'

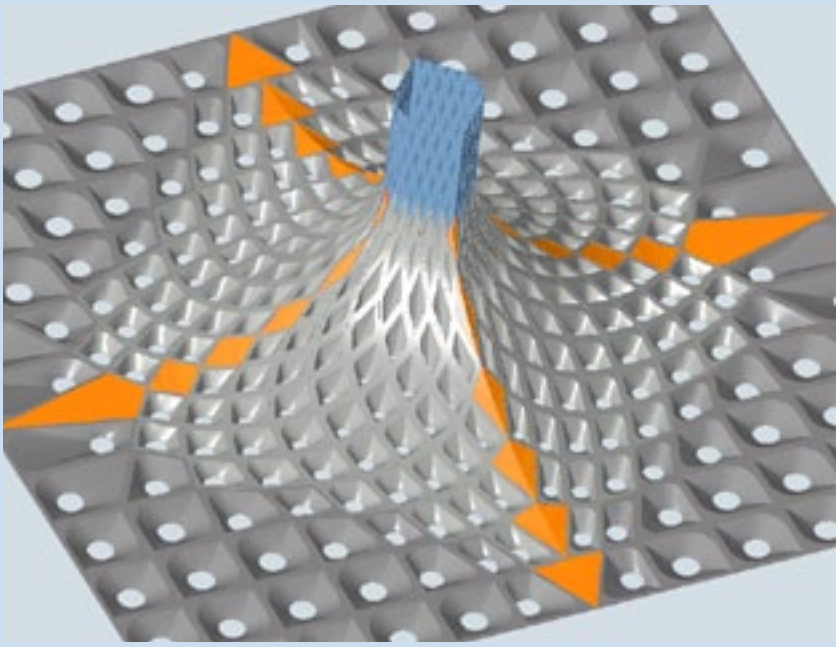
And Execution. World Class Achievement.

CLIENT | MUMBAI INTERNATIONAL AIRPORT PRIVATE LIMTED
ARCHITECT | SKIDMORE, OWINGS & MERRILL (SOM NEW YORK)

FORMGLAS DELIVERY HIGHLIGHTS:

Formglas On-Site Services: ..... ± 7,000 Labor Hours
CATIA 3D Modelling: ..... ± 3,500 Labor Hours
CNC 5-Axis Programming: ..... ± 10,000 Labor Hours
CNC 5-Axis Machining: ..... ± 3,200 Labor Hours
Dedicated Manufacturing Space: .....6,500 m^2 ⇆ 70,000 ft^2
Execution Effort: ..... 11 Months and 370,000 Labor Hours
Total No. of Components: 14,967
Total No. of Molds: 452
Recycled Steel Used: ..... ± 15,000 lm ⇆ 49,000 lft.
Shipments (40' containers): .....209 from Canada and Mexico





Large Thematic Environments.

QuarryCast® | **Gaming** | Venetian Macau Resort | RTKL Associates Inc. | Macau, China |
| Over 300,000 ft² ⇆ 28,000 m² of QuarryCast®, in a custom color, texture and finish used throughout the themed retail area of the largest gaming facility in Asia

Comprehensive Full-Service Delivery.

Solutions For Visual Impact

GFRG | **Marine** | Carnival Spirit Cruise Ship | Joseph Farcus Architect P.A. | Finland |
| Custom GFRG relief pattern moldings, faux finished with copper leaf and lacquer

And Technical Performance

FRP | Retail | Bayview Village Shopping Centre | GHA Design Studios | Toronto, ON |
| FRP corrugated signage panels with factory-applied pearlescent paint finish

Complex Shapes Realized Through

GFRG | **Transportation** | JFK International Airport – Delta Air Lines | Skidmore, Owings & Merrill (SOM New York) | Queens, NY |
| Suspended GFRG perforated ceiling elements

Technology And Innovative Design

High Performance Materials

CorniceStone™ | **Institutional** | North Carolina Research Center | Smith Sinnett Architecture | Kannapolis, NC |
| CorniceStone™ feature columns and cornices accenting the building entrance

That Endure The Test Of Time

CorniceStone™ | **Institutional** | Halifax Regional Hospital | ODELL | South Boston, VA |
| CorniceStone™ cladding panels, window mullions and panels located on the top two floors of this hospital tower expansion

Sharp Aesthetics That

GFRC-L | **Hospitality** | Joey Restaurant | Queen's Quay Architects International Inc. | Toronto, ON |
| GFRC-L planked window base panels and V-shaped exterior column cladding that transition into the restaurant interior

Engage Inside And Out

Classical And Contemporary Design.

GFRG | Institutional | Hamamatsu Bridal Chapel | Spot Ltd. | Hamamatsu, Japan |
| GFRG classical vaulted ceiling and beams

The Versatility To Create Both.

GFRG | **Hospitality** | GLOW Fresh Grill & Wine Bar | MackayWong Strategic Design | Toronto, ON |
| Suspended GFRG ribbon ceiling elements

Create The Unexpected. Tran

GFRG | **Hospitality** | KOI New York | ICRAVE | New York, NY |
| Wire-suspended GFRG fishnet-pattern decorative casting rising from the wall and transitioning across the ceiling

sform Concepts Into Reality.

GFRG | **Hospitality** | KOI Las Vegas | ICRAVE | Las Vegas, NV |
| Suspended GFRG net-themed elements with GFRG cast rope connections

Material Performance That

Formglas®

GFRC-L | **Retail** | Brooks Brothers | Permasteelisa North America | North America |
| GFRC-L veneer wall panels, base and decorative profiled cornice and trim

Reinforces The Brand Statement

FRP | **Retail** | RBC Financial Group | DIALOG | Across Canada |

GFRC-L | Grey FRP cantilevered eyebrow and sign beacon, wood-grained textured FRP portal entry and horizontal sign backer stats, GFRC-L exterior base

Ideas Take Shape In All Forms With

GFRG | **Hospitality** | Mercat a la Planxa, The Blackstone Hotel | D-ASH Design | Chicago, IL |
| GFRG double-sided multi-colored curved hexagonal screen

Vibrant Colors And Unique Finishes

MetalCast® | **Gaming** | Grand Casino Baden | Günter Merckle Architekt | Baden, Switzerland |
| MetalCast® rust finish curved panels with light wells

Breakthrough Creativity. Enorm

GFRG QuarryCast® | **Hospitality** | Atlantis, The Palm, Dubai | Wilson Associates | Dubai, UAE |
| QuarryCast® fish-themed columns, 40 ft. ⇆ 12 m tall, and a 100 ft. ⇆ 33 m diameter GFRG dome with mirror inserts.

ous Scale. Spectacular Results.

Imaginative. Innovative. Inspired.

Woodgrane™ | **Institutional** | St. Joseph's Regional Medical Center | Francis Cauffman | Paterson, NJ |
| Woodgrane™ staggered faux mahogany curved and wave panel feature wall

Design With Complete Confidence

Your next creation begins here. Formglas is committed to providing architects, designers and other construction professionals with the tools, information and support needed to let ideas take shape.

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Product Data

Technical Specifications

Installation Information

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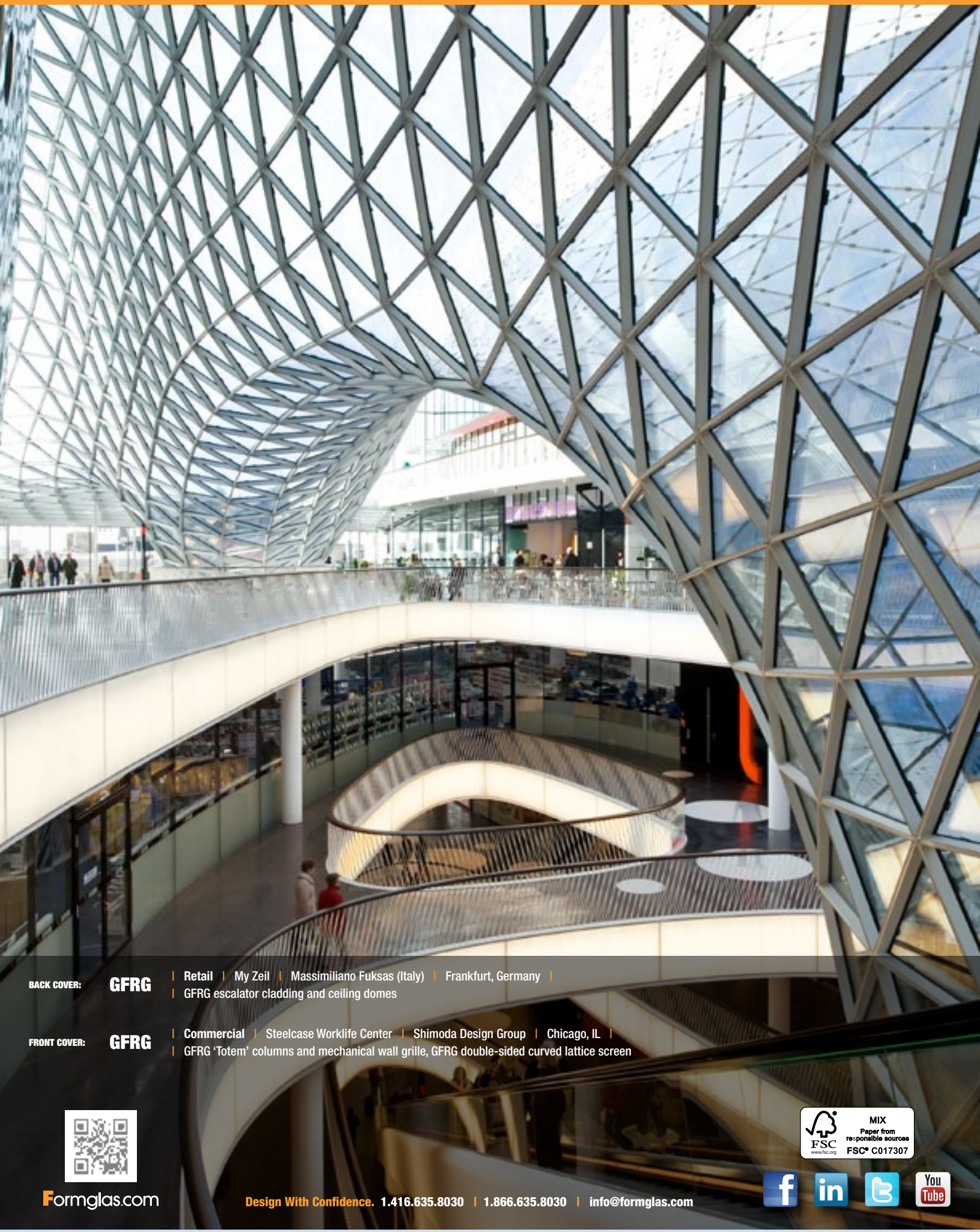

BACK COVER: **GFRG** | **Retail** | My Zeil | Massimiliano Fuksas (Italy) | Frankfurt, Germany |
| GFRG escalator cladding and ceiling domes

FRONT COVER: **GFRG** | **Commercial** | Steelcase Worklife Center | Shimoda Design Group | Chicago, IL |
| GFRG 'Totem' columns and mechanical wall grille, GFRG double-sided curved lattice screen

MIX
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