Introducing Nova Marine Glass, a minority owned U.S. Company

A comprehensive look at our
services and sustainability efforts

TUTTOTONDO GROUP

NOVA MARINE GLASS

Agenda

- Our Company
- Quality certifications
- Project References
- Glass – Industry Data
- Sustainability and Future Commitments

Our Company

An overview of our company and expertise

Company Background

NOVA MARINE GLASS LLC, part of TUTTOTONDO Group, specializes in serving the cruise ship industry by engineering, manufacturing, installing and certifying highly customized glass products.

The Company was born in 2023 with the idea to create a US based glazing manufacturing and services reference for the marine industry.

Key Factors

- Group expertise and market share.
- Manufacturing expertise.
- Marine service expertise.

Products and Services

Our offerings and capabilities

Product Offerings

- Structural glass: windows, portholes, windbreakers.
- Decorative glass: stairs, railings, doors, partitions, tabletops.
- Mirrors.

Service Offerings

- Any type of installation.
- Cleaning and restoration.
- Resealing.

Manufacturing Plant

- Located in Miami, FL, providing tailor-made glass solutions.
- Equipped with state-of-the-art machinery ensuring high-quality standards.
- Includes straight polishing machine, cutting table, drilling machine, laminating oven, and bent oven.
- Dedicated team of certified glass artisans.
- Expertise and skill at every stage of production and installation.


NOVA
MARINE GLASS


Pujol


NOVA
MARINE GLASS


NOVA
MARINE GLASS

Quality Certifications

- ISO 9001 & 14001: Enhances quality and operational efficiency.
- Improved quality control and increased customer satisfaction.
- Operational and environmental efficiency.
- Enhanced employee engagement and continuous improvement.
- Better risk management and regulatory compliance.

CERTIFICATE

Environmental Management System

This certificate is issued to confirm that the introduced and maintained Environmental Management System management system complies with the standard.

ISO 14001:2015

NOVA MARINE GLASS LLC

4451 NW 74th Ave - 33166 Miami, FL
TAX reg. No.: 93-2944376

Site of Business:
7326 NW 46th Ave - 33166 Miami, FL

Scope of certification

Glass assembly, cutting and stratification for the maritime sector.
EA 28 (NACE 41.2, 43.3)

Certificate No.: E2026

Certification validity: 04-10-2024 until 03-10-2027 • Initial certification: 04-10-2024

Approved by: Jan Blechta, Head of certification body

AUDISO CERTIFICATION

• Certificate issued on: 04-10-2024 •

The certificate is valid for 3 years provided that the management system will be kept in accordance with the standard requirements.

E2026

CERTIFICATE

Quality Management System

This certificate is issued to confirm that the introduced and maintained quality management system complies with the standard

ISO 9001:2015

NOVA MARINE GLASS LLC

4451 NW 74th Ave - 33166 Miami, FL
TAX reg. No.: 93-2944376

Site of Business:
7326 NW 46th Ave - 33166 Miami, FL

Scope of certification

Glass assembly, cutting and stratification for the maritime sector.
EA 28 (NACE 41.2, 43.3)

Certificate No.: Q4245

Certification validity: 04-10-2024 until 03-10-2027 • Initial certification: 04-10-2024

Approved by: Jan Blechta, Head of certification body

AUDISO CERTIFICATION

• Certificate issued on: 04-10-2024 •

The certificate is valid for 3 years provided that the management system will be kept in accordance with the standard requirements.

Q4245

QUALITY CERTIFICATIONS – ISO 614 (TO BE EXPANDED HIGHLIGHTING COLLABORATION WITH RINA)

ISO 614, specifically related to marine glazing, outlines standards for the performance and characteristics of glass products used in marine environments. The benefits of adhering to ISO 614 for marine glazing include the following:

- Enhanced Safety: ISO 614 sets rigorous standards for impact resistance, which helps ensure that marine glazing can withstand harsh conditions, including impacts from waves, debris, and significant forces encountered at sea. This enhances the safety of passengers and crew aboard vessels.
- Quality Assurance: Adhering to ISO 614 indicates that the manufacturer has systems and processes in place for quality control. This gives confidence to shipbuilders, owners, and operators regarding the reliability and performance of the glazing products.
- Reduced Maintenance Costs: High-quality marine glazing that meets ISO 614 standards minimizes the need for repair and maintenance, resulting in cost savings over time.
- Market Differentiation: Companies certified to ISO 614 can differentiate themselves in the marketplace, showcasing their commitment to quality and safety, which can attract customers and partnerships in the maritime industry.
- Environmental Impact: Using high-performance, durable materials in marine glazing can lead to a reduced environmental impact by minimizing waste and enhancing energy efficiency.

PROJECTS REFERENCES

Carnival Cruise Line

- CCL Elation Dry Dock January 2023, Freeport – Bahamas (Water park structural mod, various windows restoration and decorative glass)
- CCL Pride Dry Dock May 2023, Cadiz – Spain (Water park structural mod, various windows and decorative glass)
- CCL Paradise Dry Dock October 2023, Freeport – Bahamas (Water park structural mod, various windows and decorative glass)
- CCL Freedom Dry Dock October 2023, Cadiz – Spain (Water park structural mod, various windows and decorative glass)
- CCL Sunrise Dry Dock February 2024, Cadiz – Spain (Water park structural mod, resealing, various windows and decorative glass)
- CCL Glory Dry Dock April 2024, Cadiz – Spain (Water park structural mod, various windows and decorative glass)
- CCL Legend Dry Dock May 2024 Marseille – France (Water park structural mod, antique mirrors, various windows and decorative glass)
- CCL Splendor August 2024 Singapore – Singapore (Water park structural mod, various windows and decorative glass)
- CCL Radiance Sept 2024, Victoria – Canada (Water park structural mod, various windows and decorative glass)

Princess Cruise Lines

- Caribbean Princess
- Island Princess

Oceania Cruises

- Oceania Insignia- Supply and Installation

Virgin Voyages

- Scarlet Lady- Supply and Installation
- Valiant Lady - Supply and Installation

Silversea Cruises

- Silver Wind- Supply and Installation
- Silver Nova- Supply and Installation

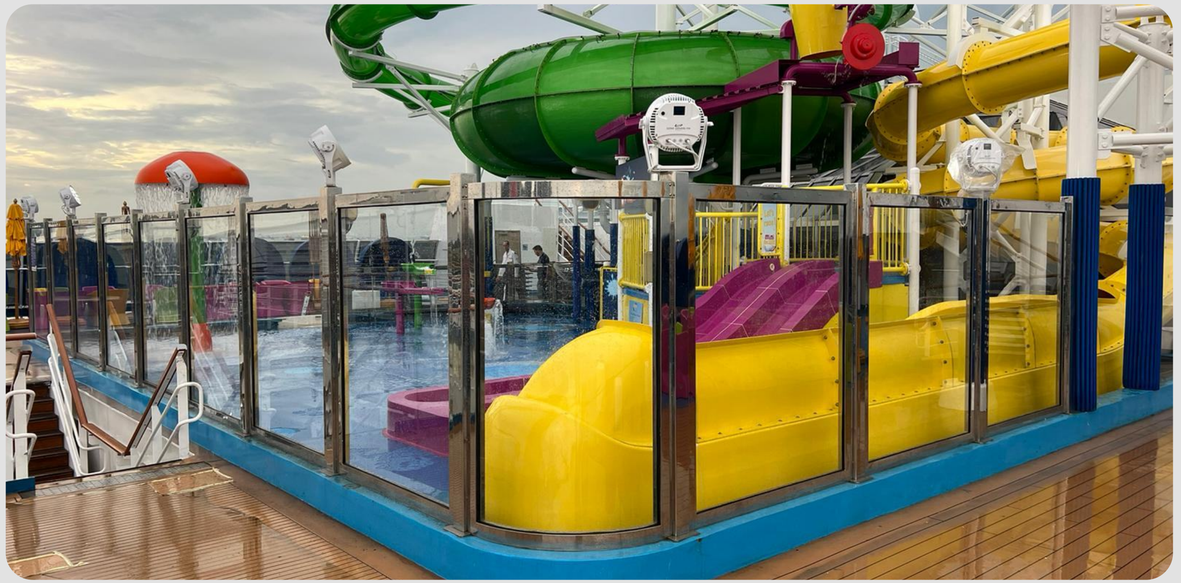
Royal Caribbean Cruises

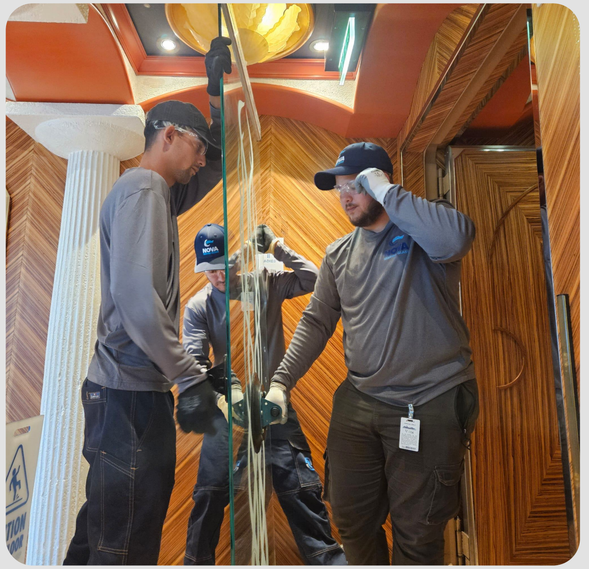
- Freedom of the Seas- Supply and Installation
- Enchantment of the Seas- Supply and Installation
- Radiance of the Seas- Supply and Installation

Disney Cruise Line

- Disney Magic, 2022/2023/2024 (Various Glass Replacement in Service and Dry Dock)
- Disney Wonder, 2022/2023/2024 (Various Glass Replacement in Service and Dry Dock)
- Disney Wish, 2022/2023/2024 (Various Glass Replacement in Service and Dry Dock)
- Disney Dream, 2022/2023/2024 (Various Glass Replacement in Service and Dry Dock)
- Disney Fantasy, 2022/2023/2024 (Various Glass Replacement in Service and Dry Dock)


NOVA
MARINE SERVICE





Glass – Industry Data

Glass covers approx. 25% of total vessel surface

Vessel type:

- Guest capacity: 4,300
- Crew: 1,600
- Ton: 180,000

Public areas:

- IGUs 1,900sqm
- Balaustrades 300sqm (tempered/ laminated)
- Windscreens 3,250sqm (tempered/ laminated)

Glass – Industry Data

Cabins

- IGUs 3,500sqm
- Balcony balaustrades (tempered/laminated) 2,600sqm

IGUs total sqm: 5,400

Tempered/laminated total sqm: 6,150

Total glass value is approx. 30M$

- Glass value 24M$ (≈ 80%)
- Labor value 6M$ (≈ 20%)

Sustainability and Future Commitments

Our dedication to sustainable practices and innovation

TUTTOTONDO GROUP

NOVA MARINE GLASS

SUSTAINABLE DEVELOPMENT GOALS

CLIA and its cruise line members have identified the SDGs to which the industry is contributing and can make a difference. These SDGs, referenced throughout this report, include Climate Action, Sustainable Cities and Communities, Good Health and Well-Being, Life Below Water, Life on Land and more

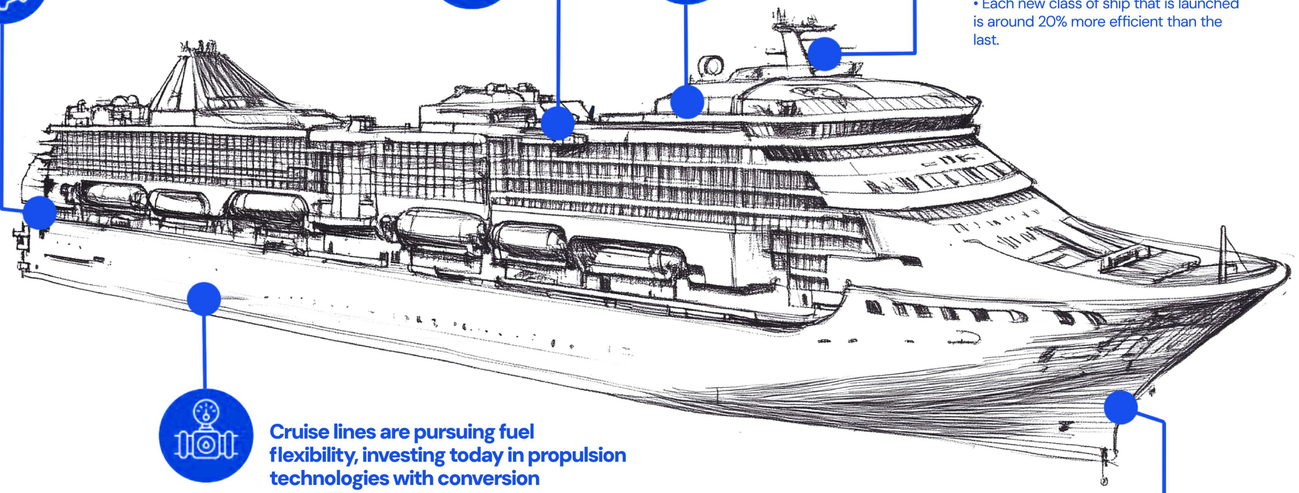
Hull coatings increase fuel efficiency by nearly 10%

15% of CLIA-member ship entering service from 2023 through 2028 are equipped with battery storage and/or fuel cells to allow for hybrid power generation

EGCS technology installed on ships is designed to remove 98% of sulphur and well over 50% of particulate matter, with a 12% reduction in NOX

Using digital technology to be more energy efficient

- From tracking the energy use of appliances in a ship's galley to routing ships optimally, digital technologies offer a new energy-saving tool.
- Efficiency tracking systems are currently in use on 171 CLIA-member ships, representing 60% of the globall fleet, with many more systems planned.
- Each new class of ship that is launched is around 20% more efficient than the last.



Cruise lines are pursuing fuel flexibility, investing today in propulsion technologies with conversion capabilities for the future

- 41 ships with engines powered by fossil LNG will be in service by 2028-all easily adaptable for the use of bioLNG or synthetic LNG when these fuels become available at scale.
- 7 ships will launch between 2023 and 2028 that are either methanol ready on delivery or methanol capable, representing 15% of the order book.

Cruise lines are investing in shoreside electricity, which allows ship engines to be switched off at berth, reducing emissions by up to 98%, depending on the mix of energy sources

- Today, 120 ships, representing 46% of the CLIA-member fleet, are equipped to connect to shoresice electriciv-3 48% increase rom the prior year.
- By 2028, more than 210 ships with shoreside power capability, plus additional ships to be retrofitted with the capability.
- Only 2% of the world's ports currently have at eastone cruise berin wit onshore bower

Average age of ships in the CLIA-member fleet is 14.1 years

75% of the CLIA-member fleet capable of using sustainable fuels once available at scale

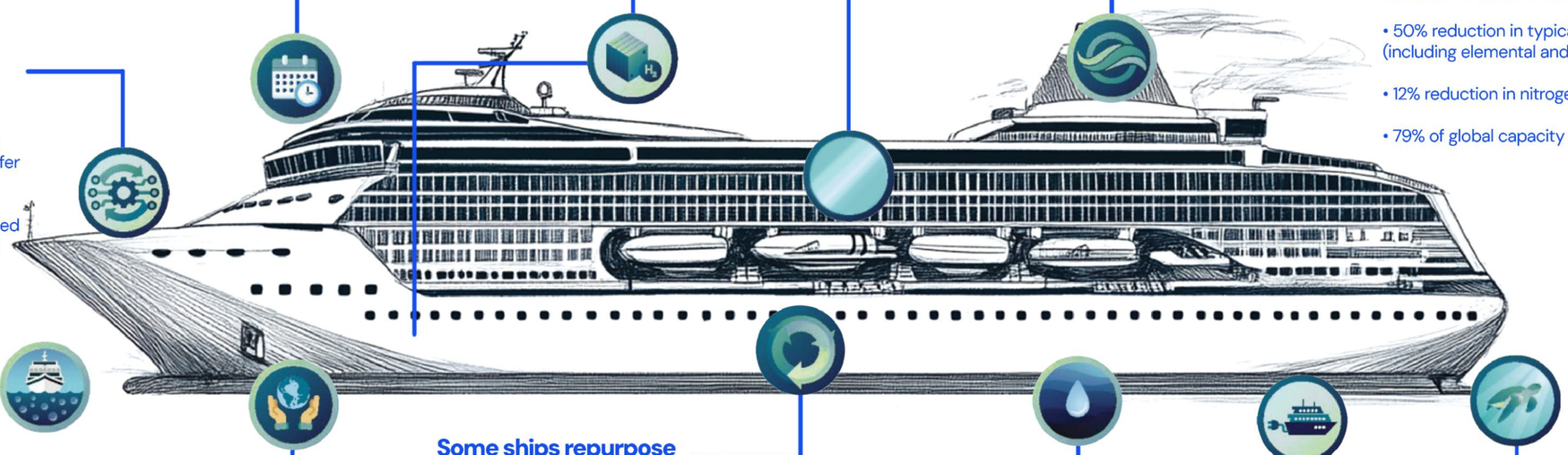
Glass covers approx. 25% of total vessel surface

88% of non-LNG new-build ships specified for EGCS

- Exhaust gas cleaning systems (EGCS) 98% reduction in sulfur oxide levels
- 50% reduction in typical total particulate matter (including elemental and organic carbon and black carbon)
- 12% reduction in nitrogen oxides
- 79% of global capacity utilizes EGCS

Using digital technology to be more energy efficient

- From tracking the energy use of appliances in a ship's galley to routing ships optimally, digital technologies offer a new energy-saving tool
- Each new class of ship that is launched is around 20% more efficient than the last



96% of ships have low-friction hull coatings

Air lubrication systems and special nul coatinas increase fuel efficiency by nearly 10%

100% of new ships specified for Advanced Wastewater Treatment Systems

- Advanced wastewater treatment systems (AWTS) rival land-based facilities
- 78% of CLIA-member ships sailing fitted with AWTS|

38 LNG-powered ships specified to be in service by 2028

- LNG reduces GHG more than 20%, SOx (99%), soot particles (98%). NOX (85%)
- LNG-fueled vessels can transition to bioLNG and renewable synthetic LNG once available at scale

Some ships repurpose 100% of waste

- Programs supporting land-free ship operations
- Surplus heat transferred from machinery to heat water for showers and pools
- Bio-digesters reduce food waste

Up to 90% of fresh water produced onboard

Through state-of-the-art systems and practices, cruise lines are able to conserve and repurpose onboard rather than drawing from areas where resources are limited

Every CLIA-member ship being built today, except expedition, is specified to have shoreside power capability

- 40% of the CLIA cruise line member fleet is plug-in ready, 30% to be retrofitted
- Only 3% of the world's ports have onshore power

Cruise lines have dedicated programs and systems designed to protect marine life

- Members agree to avoid or voluntarily reduce vessel speed in sensitive areas
- Underwater noise and vibration reduction systems
- Onboard scientists to support iportanl ocean anie tuiarire life research

Sustainability in Production and Packaging

Recycled Glass Production

- Use Recycled Glass (Cullet): Incorporate cullet in your glass production process. This reduces the need for raw materials and lowers energy consumption since cullet melts at a lower temperature than raw materials.
- Energy Efficiency (already in process)
- Upgrade Equipment Technology: Invest in energy-efficient equipment

Eco-Friendly Packaging (already in process)

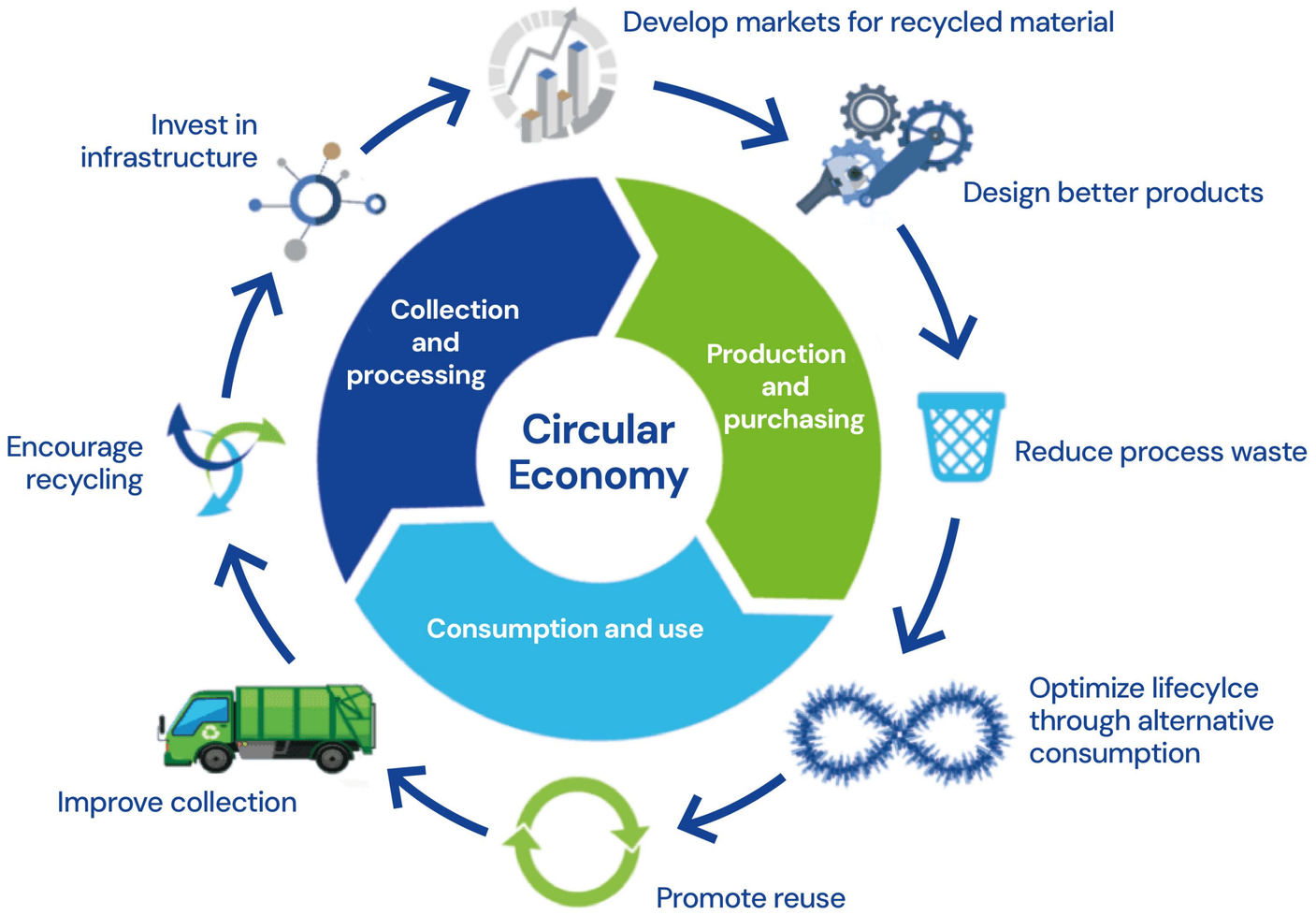
- Sustainable Packaging Materials: Use biodegradable or recyclable packaging materials. Consider minimalistic designs that reduce material usage.

Water Conservation (in process)

- Water Recycling: Implement systems that recycle and reuse water in the production process to reduce overall water consumption.

Community Engagement and Education

- Educational Programs: Partner with local schools or community groups to educate about the benefits of glass recycling and sustainable practices.



Solar Control Glazing

- Solar control glass reduces energy consumption and enhances indoor comfort.
- Blocks substantial solar heat, lowering energy costs.
- Filters out up to 99% of harmful UV rays, protecting skin and interior furnishings.
- Contributes to environmental conservation by reducing carbon emissions.

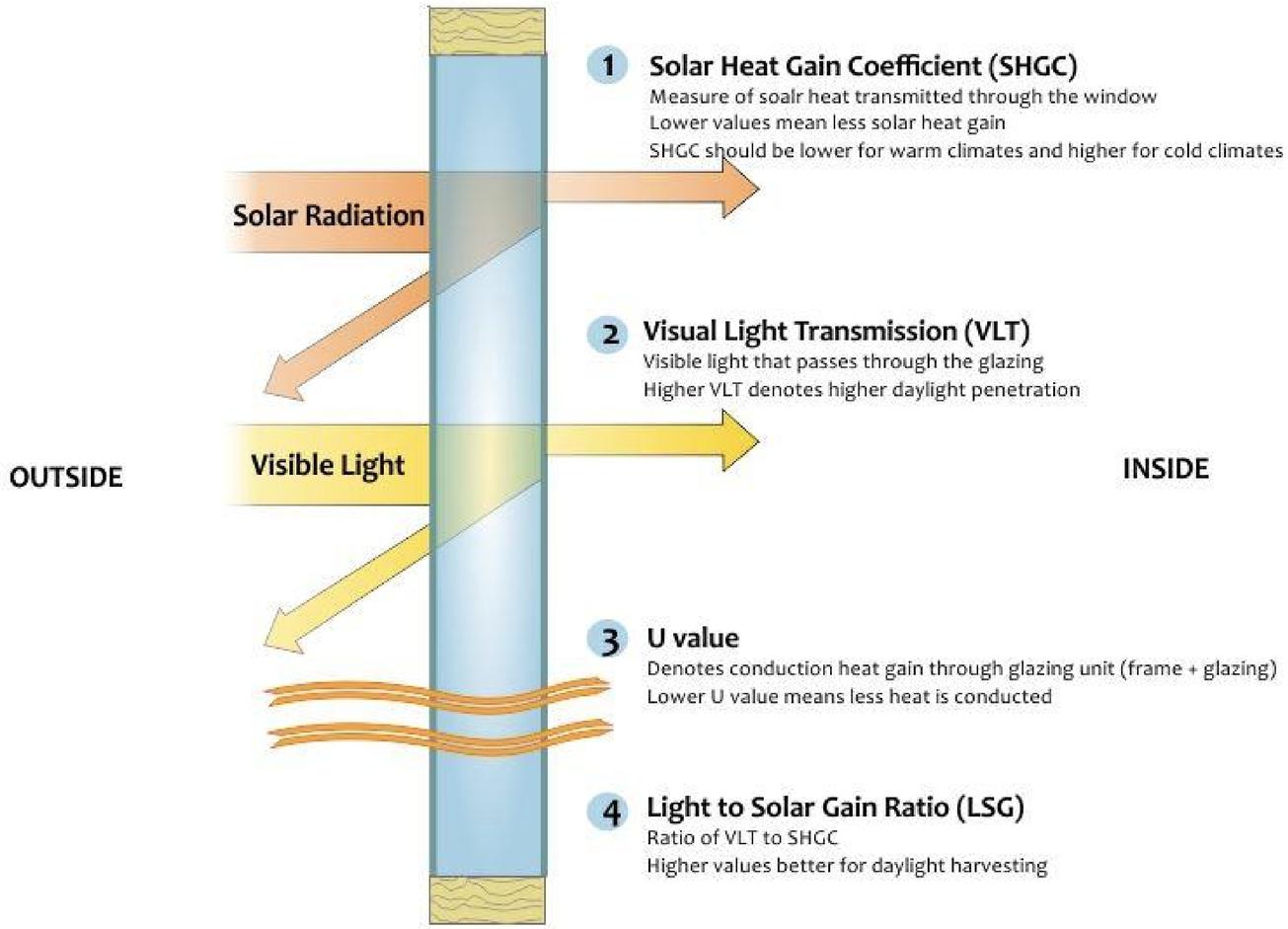
Solar control glazing

Solar Control Glass: An Unprecedented Innovation Championing Energy Efficiency

In the modern era of sustainable architectural design, solar control glass stands out as a revolutionary solution. It fundamentally alters our understanding of energy efficiency in construction. This innovative technology accomplishes more than just reducing energy consumption - it enhances indoor comfort, promotes healthier living conditions, and paves the way for a more sustainable future.

The Benefits of Solar Control Glass Energy Efficiency

Solar control glass significantly reduces the cooling load on air conditioning systems by blocking substantial solar heat, lowering energy consumption and utility costs. This makes it a cost-effective and energy-efficient solution for temperature regulation.



glazing properties relevant for daylight harvesting and energy efficiency

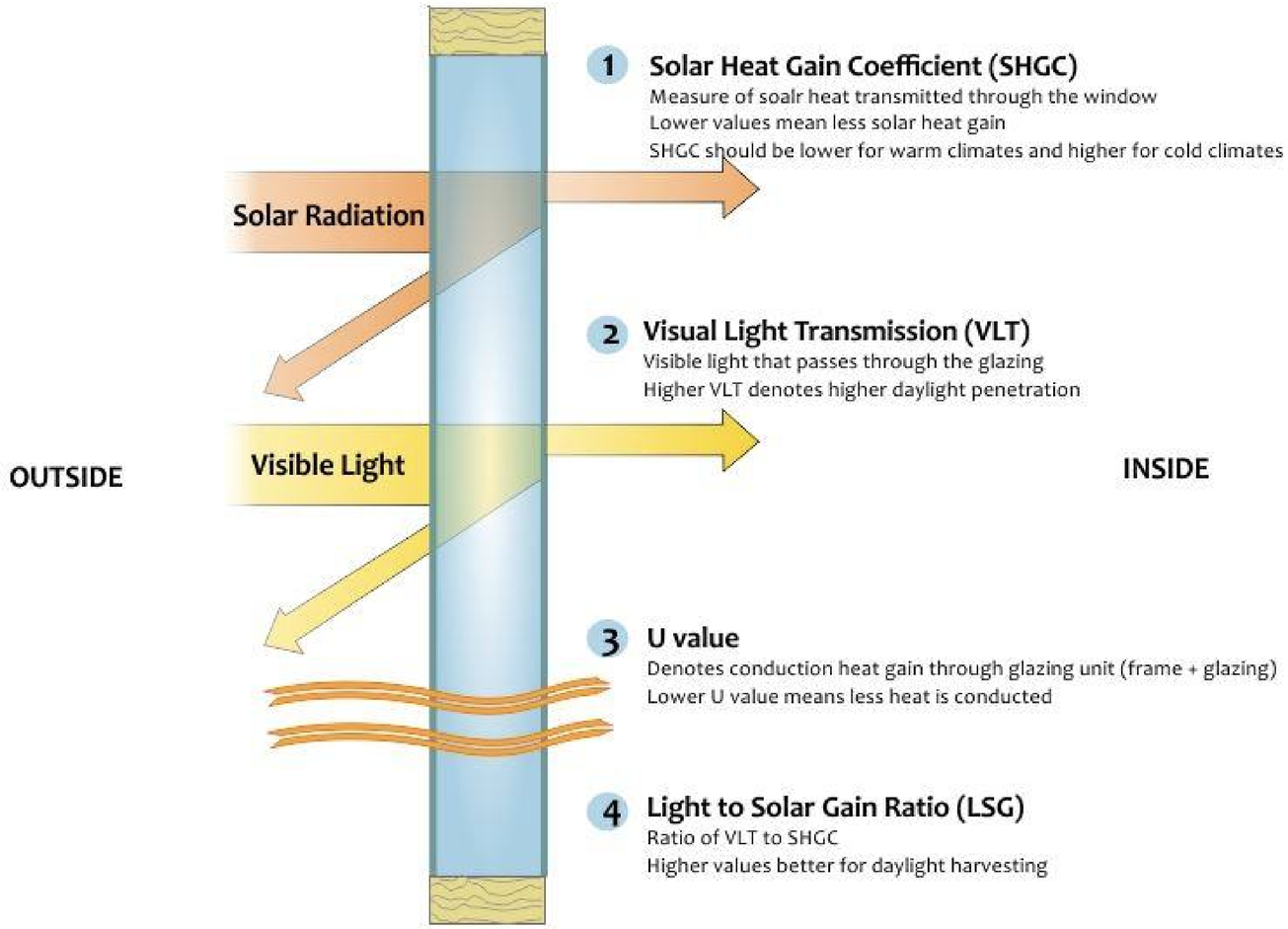
Solar control glazing

Comfort and UV Protection

- Solar control glass enhances occupant comfort by minimizing indoor heat gain and reducing glare. It maintains a comfortable indoor temperature by minimizing temperature fluctuations caused by direct sunlight, allowing occupants to enjoy natural light without feeling overheated.
- Additionally, it filters out up to 99% of harmful UV rays, protecting skin and preventing the fading of interior furnishings such as furniture, flooring, and artwork.

Environmental Impact

Solar control glass helps lower carbon emissions by optimizing energy usage and decreasing the need for HVAC systems. This contribution to sustainable building practices supports environmental conservation and helps combat climate change by reducing structures' overall carbon footprint.



glazing properties relevant for daylight harvesting and energy efficiency

Long-Term Commitment

- Personnel education and training focused on excellence and sustainable practices.
- Continuous investment in new products and technologies.
- Expanding our product variety.
- Increasing our raw material stock.

Thank you for your attention

Questions and discussion