



MULTIWALL POLYCARBONATE

PRODUCT CATALOG

ABOUT US

Novus Group is a fast-growing modern polycarbonate sheet manufacturer based in Lithuania. Since the initial investment in 2021, we have delivered tailored solutions that meet our clients' specific needs - a strategy that has helped us build international recognition and a strong customer base.

Today, our polycarbonate sheets are exported across Europe and beyond. With a new €28 million investment underway, Novus Group is set to become the largest polycarbonate sheet manufacturer in Eastern Europe, reaching an annual production capacity of 12,300 tonnes.

By working closely with trusted European suppliers such as Makrolon®, we are ready to meet the rising demand and deliver future-ready solutions that stand the test of time.



STRUCTURES

Whether it's a large-scale project or a custom inquiry, we aim to be the partner that says yes.

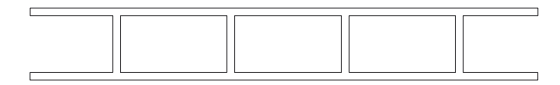
To accommodate different needs and project specifications, we offer a range of customisation options, including:

- Precision cutting to match specific dimensions from the get-go.
- Protective film with custom branding for a polished, clean, and professional look.
- Double-sided UV protection for more flexibility.
- application, an extended warranty of up to 20 years.
- Pre-cut sheet kits for beginner-friendly projects (e.g., simple greenhouse).
- Custom tints and other features available upon request.



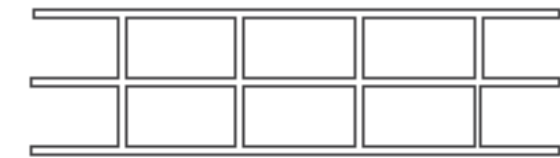
TWIN WALL

4mm / 6mm / 8mm / 10mm



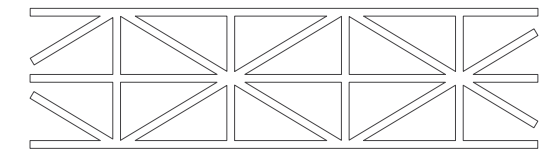
TRIPPLE WALL

16mm / 20mm



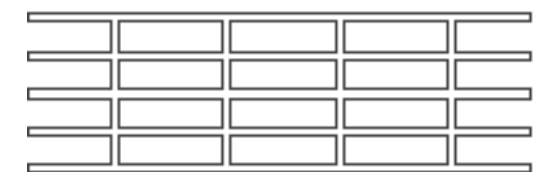
TRIPPLE X

16mm / 20mm



FIVE WALL

10mm / 12mm



ECO BY DESIGN

Sustainability is more than a feature - it's the key to a greener future for all. This mindset shapes how we design, produce, and handle every product.

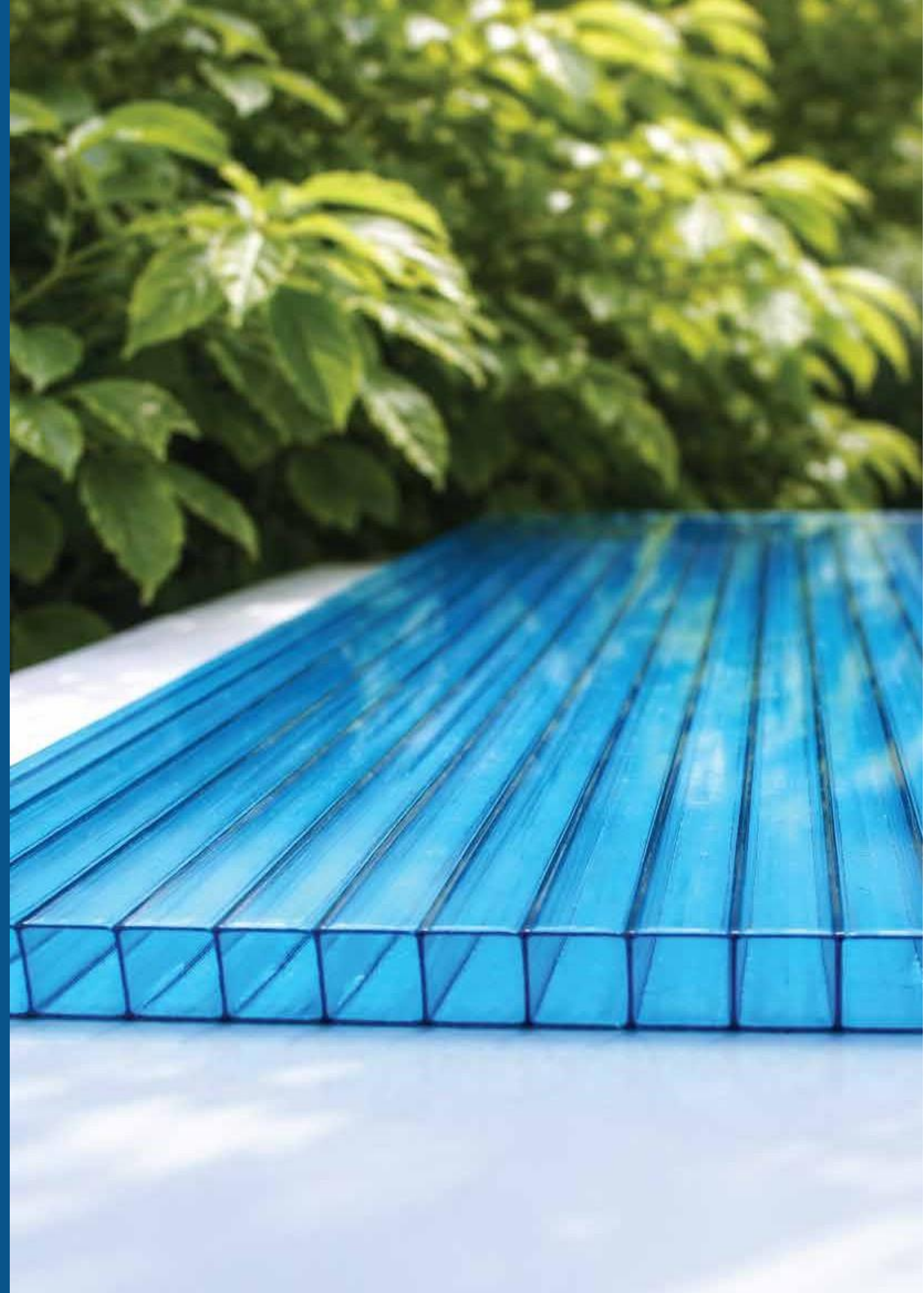
All leftover materials and cutting scraps from Polyplast sheets are fully shredded and reintroduced into the manufacturing process. Even after the warranty period ends, old sheets can still be repurposed for other uses. These practices help us to eliminate waste and maximize material efficiency.

We also use fully recyclable protective film and eco-friendly packaging materials for transport and storage.

SHEET



MASKING



DURABLE BY NATURE

Polyplast sheets are engineered for versatile applications in every climate. At the same thickness, a polycarbonate sheet is four times stronger than PVC, over 10 times stronger than acrylic (PMMA), and 200 times stronger than glass.

Compared to mineral glass, polycarbonate sheets deliver corresponding impact strength at just 25% of the weight. Alongside durability, polycarbonate sheets are significantly lighter compared to other materials.

Depending on the desired thickness and structure, the weight ranges from 0,6 to 3,2 kilograms per square meter.



CORE FEATURES AT A GLANCE

Polyplast sheets combine excellent thermal, optical, and mechanical properties. Whether used in architectural, large-scale industrial, or DIY projects, they are a highly versatile, easily customizable, and reliable alternative to other materials, such as glass or PVC.



HEAT INSULATION

A multi-wall structure provides effective thermal insulation, improving energy efficiency in both warm and cold climates.



LIGHT TRANSMISSION

Polycarbonate sheets transmit up to 84% of natural daylight, creating an uplifting and spacious feel in indoor spaces.



GLOBAL APPLICATION

Reliable performance across extreme temperature ranges (from -40°C to $+120^{\circ}\text{C}$) ensures stable structures and minimal thermal expansion.



UV PROTECTION

High-coverage UV layer filters out over 98% of UV rays, offering reliable protection from yellowing and structural degradation.



EXTENDED WARRANTY

The standard 10-year warranty includes an optional extension to 15 or 20 years to preserve aesthetic and technical performance.

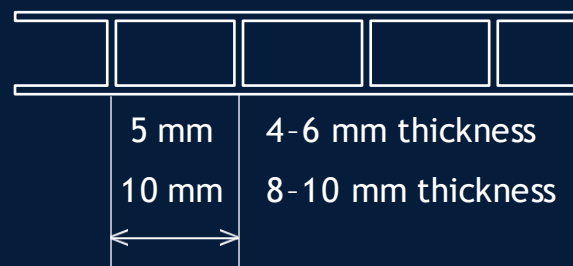


FIRE PERFORMANCE

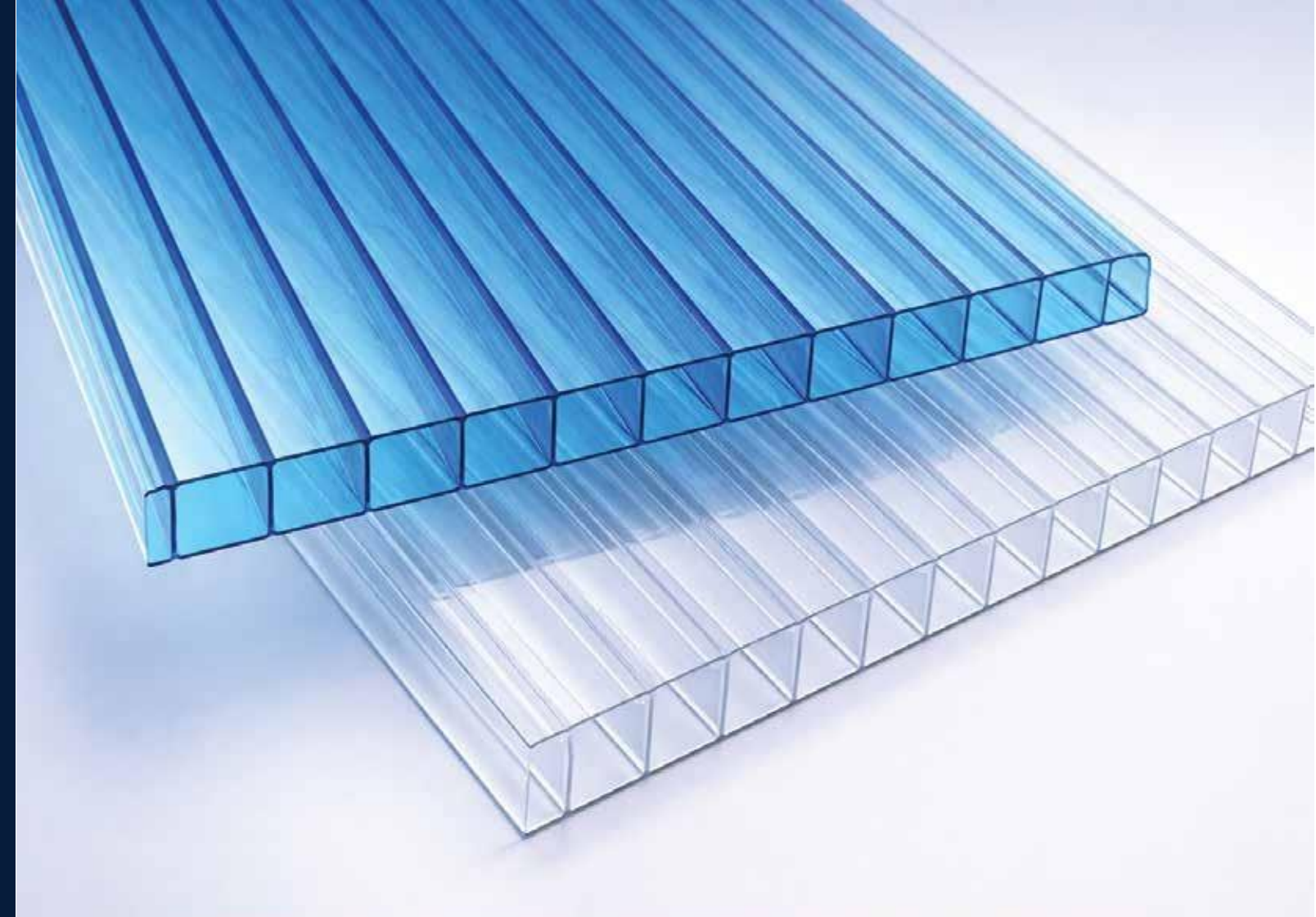
During a fire, polycarbonate sheets melt without shedding burning particles. Formed cavities allow heat and smoke to escape from the building, slowing the spread of fire.

TWIN WALL

Twin wall Polyplast sheets efficiently invite natural light into the structure, giving a spacious feel but also providing reliable UV protection. This combination makes them the perfect choice for greenhouses, walkway and swimming pool covers, as well as vertical glazing panels for buildings.



AVAILABLE TINTS: clear, opal, grey, bronze



RECOMMENDED APPLICATIONS

- Twin wall polycarbonate sheets are used in lightweight glazing systems requiring natural daylight, weather protection, and efficient structural performance.
- Greenhouses. Suitable for horticultural structures requiring controlled daylight conditions and protection from environmental exposure.
- Terrace and patio roofing. Applied in residential and commercial outdoor roofing systems, providing protection from rain and wind.
- Walkway and entrance canopies. Used in canopy structures above entrances, pedestrian walkways, and public access areas.
- Swimming pool covers and enclosures. Installed in recreational facilities requiring sheltered spaces with natural daylight.
- Vertical glazing panels. Applied to facade elements and interior partitions using translucent glazing materials.

KEY FEATURES

- Twin wall panels provide an efficient solution for lightweight glazing structures requiring durability and reliable long-term performance.
- Low structural weight. Reduces load on supporting structures and simplifies installation.
- High impact resistance. Polycarbonate provides superior resistance to mechanical impact compared to traditional glazing materials.
- Multiwall panel configuration. Internal wall structure provides rigidity while maintaining low panel weight.
- Weather resistance. Suitable for long-term outdoor use under varying environmental conditions.
- UV-protected surface. Co-extruded UV layer protects the material from solar degradation.

PRODUCT SPECIFICATIONS

- Thickness: 4-10 mm
- Area weight: 0,6-1,7 kg/m²
- C/C width: 980, 2100 mm

CORE FEATURES

- Lets in natural light for photosynthesis
- Blocks harmful UV rays
- Ideal for use in light structures

TRIPLE WALL X AND TRIPLE WALL

Triple wall Polyplast sheets strike the perfect balance overall between durability and light diffusion performance. Both the classic rectangular structure and its variation reinforced with an internal X structure are reliable options for a variety of applications, including terrace and patio roofs, industrial glazing and partitions, and other structures exposed to snow or wind.



RECOMMENDED APPLICATIONS

- Triple wall polycarbonate sheets are used in glazing and roofing systems requiring increased panel rigidity and structural stability.
- Terrace roofing and pergolas. Used in outdoor roof structures exposed to environmental loads.
- Carports and parking structures. Applied in residential and commercial vehicle shelter systems.
- Industrial skylight systems. Installed in roof glazing systems to provide daylight in industrial and storage facilities.
- Sports and public infrastructure. Used in covered walkways, sports complexes, and public buildings.
- Architectural facade systems. Applied to translucent facade elements within modern building design.

AVAILABLE TINTS: clear, opal, grey, bronze



KEY FEATURES

- Triple wall sheets provide increased panel strength and structural performance compared to standard multiwall panels.
- Reinforced multiwall structure. Additional internal walls increase panel rigidity.
- Higher load resistance. Suitable for structures exposed to wind and snow loads.
- Improved structural stiffness. Allows application in medium-span roofing systems.
- Durable construction material. Maintains mechanical performance in demanding outdoor environments.
- UV-protected outer layer. Provides long-term resistance to solar radiation.

PRODUCT SPECIFICATIONS

- Thickness: 16-20 mm
- Area weight: 2,1-3,2 kg/m²
- C/C width: 980, 2100 mm

CORE FEATURES

- Ensures efficient natural light transmission
- Protects against harmful UV exposure
- Suitable for use in lightweight structures

FIVE WALL

Five wall Polyplast sheets are a reliable option for slanting and horizontal structures, such as skylights and flat roof windows. They offer soft light diffusion ideal for work environments and architectural facade systems, while sound insulation makes them a perfect fit in noise barriers around busy roads and industrial sites.



AVAILABLE TINTS: clear, opal, grey, bronze

RECOMMENDED APPLICATIONS

- Five wall polycarbonate sheets are used in construction projects requiring enhanced insulation performance and increased panel stability.
- Industrial and warehouse buildings. Used in skylight and roof glazing systems for large-span buildings.
- Architectural facade glazing. Applied to translucent facade systems for commercial and public buildings.
- Roof glazing installations. Used in daylight solutions for large roof areas.
- Commercial and public buildings. Installed in shopping centers, transport hubs, and large public facilities.
- Infrastructure and acoustic barriers. Applied in infrastructure projects requiring durable translucent materials.

KEY FEATURES

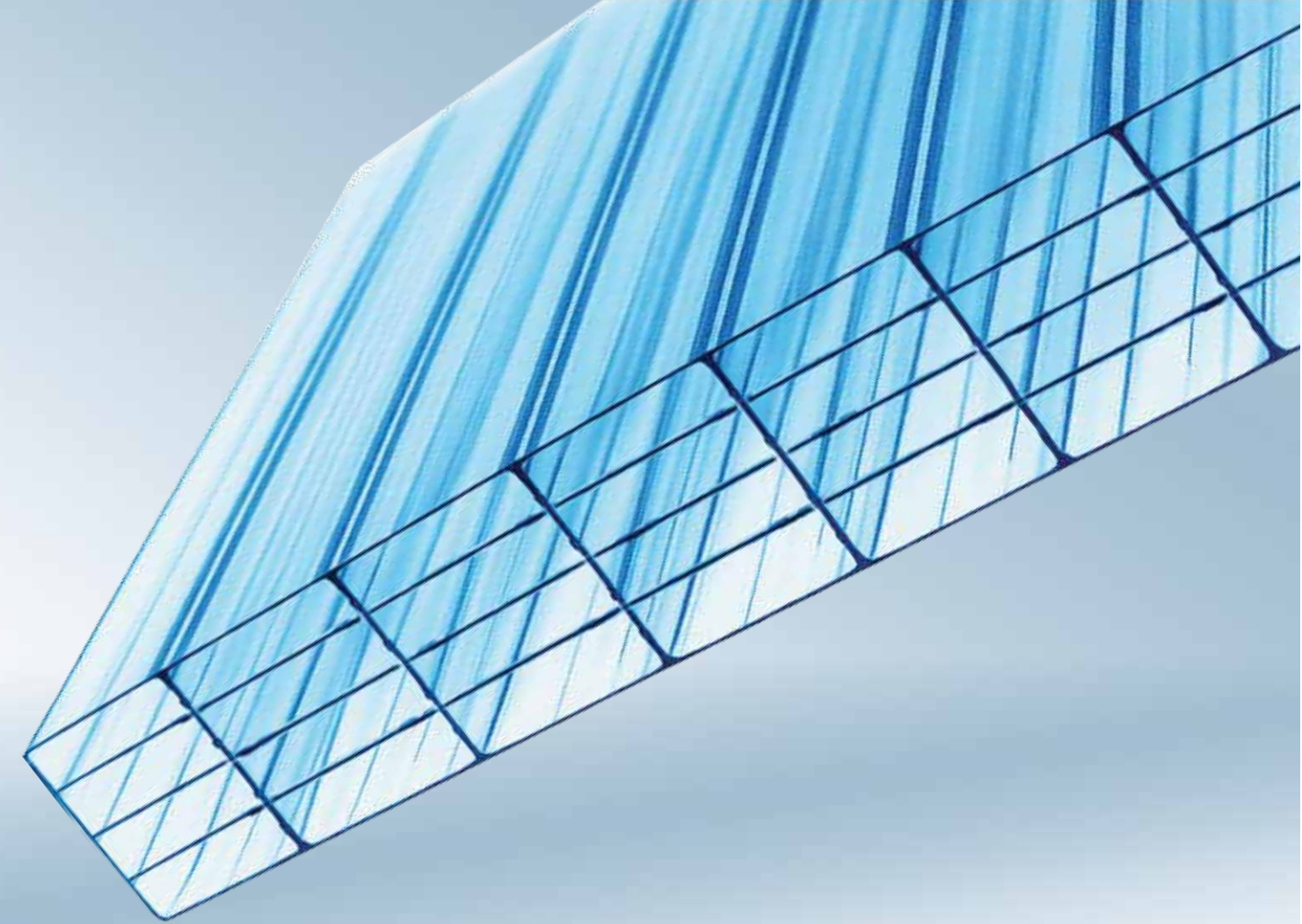
- Five wall sheets are designed for high-performance glazing systems requiring increased panel thickness and structural stability.
- Multi-layer panel structure. Provides increased panel thickness and mechanical strength.
- High structural rigidity. Suitable for demanding architectural and industrial applications.
- Improved thermal insulation. A multiwall configuration enhances insulation performance.
- Long service life. Designed for long-term performance in outdoor environments.
- UV-protected surface layer. Ensures resistance to long-term sunlight exposure.

PRODUCT SPECIFICATIONS

- Thickness: 10 mm
- Area weight: 1,3-1,7 kg/m²
- C/C width: 980, 2100 mm

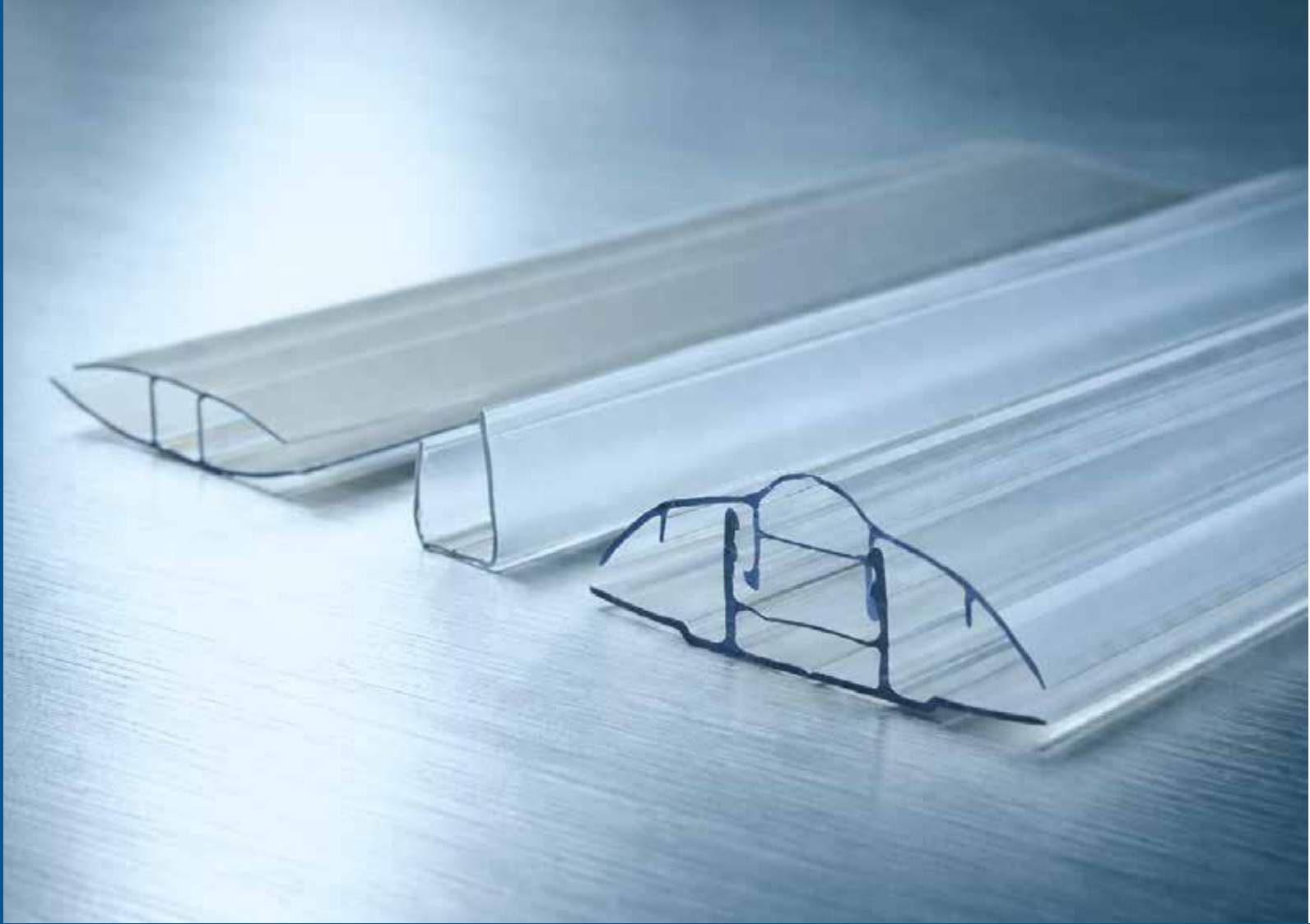
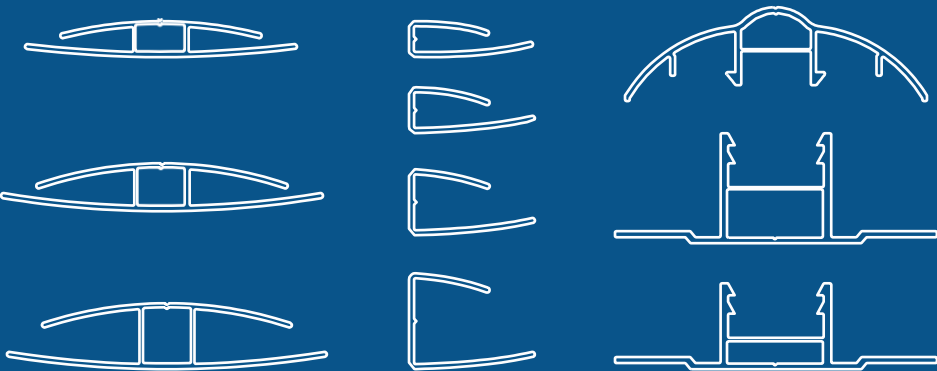
CORE FEATURES

- Thermal and acoustic insulation
- Optimal performance in a cold climate
- Ideal for industrial applications



POLYCARBONATE PROFILES

Polycarbonate profiles are designed for installing multiwall polycarbonate sheets in various structures. They ensure secure sheet connection, protect open channels, and maintain long-term performance. To accommodate different needs and project specifications, we offer a range of profile types.



RECOMMENDED APPLICATIONS

- Polycarbonate profiles are used in installation systems that require secure sheet connections and edge protection.
- Glazing and roofing systems. Used for the installation of multiwall polycarbonate sheets in residential and commercial structures.
- Greenhouses. Applied to structures requiring proper sealing and protection of sheet edges.
- Terrace and patio roofing. Used in outdoor roofing systems exposed to environmental conditions.
- Carports and shelters. Applied to lightweight structures requiring a stable panel connection.
- Industrial and commercial structures. Used in glazing systems for warehouses, public buildings, and infrastructure.

AVAILABLE TINTS: clear, opal, grey, bronze

KEY FEATURES

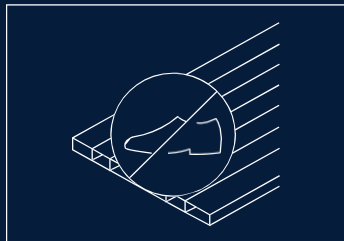
- Polycarbonate profiles ensure reliable fixing, protection, and long-term system performance.
- Secure sheet connection.
Profiles ensure stable joining of panels in roofing and glazing systems.
- Edge sealing.
Closed edges prevent moisture, dust, and debris from entering sheet channels.
- UV-protected material.
Co-extruded UV layer protects profiles from outdoor degradation.
- System durability.
Profiles contribute to long-term structural performance and clean appearance.

STRUCTURES

U PROFILE	4 mm / 6 mm / 10 mm / 16 mm
H PROFILE	4 mm / 6 mm / 10 mm
CAP & BASE	6-10 mm / 16-20 mm

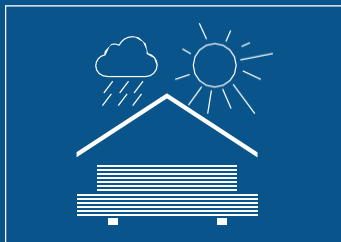
HANDLING

Always handle polycarbonate sheets with care to prevent scratches and structural damage. Only lift them when stored on wooden pallets - never directly with a forklift or crane. Wear gloves during handling and installation to avoid injury from sharp edges. Never walk on loose sheets or stacks. If walking on installed glazing is necessary, always use supporting structures to distribute weight evenly.



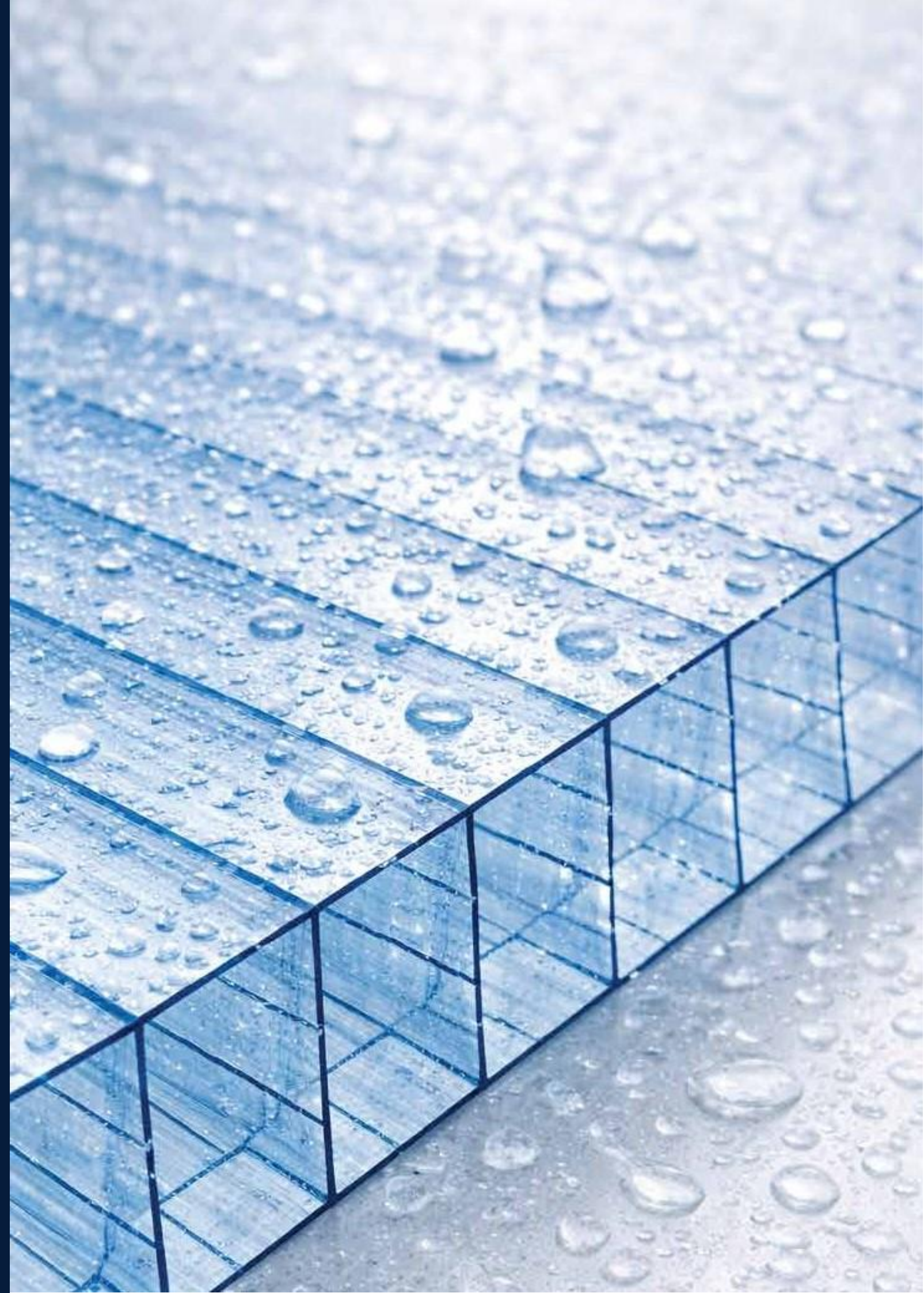
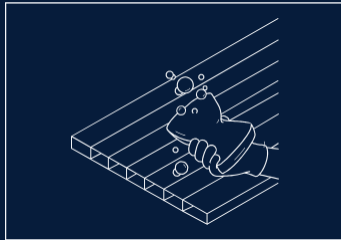
STORAGE

Store sheets horizontally on wooden pallets (avoid stacking more than 3 pallets vertically). Keep them away from sunlight and rain. Remove the protective film only during installation. Complete this step by hand - do not use any sharp tools.



CARE

To clean polycarbonate structures, use lukewarm water and a mild soap or neutral detergent with a soft cloth or sponge. Avoid scrubbing. For stubborn dirt or residue, rinse with water or gently wipe using ethanol or isopropanol. Larger surfaces can be cleaned with a water jet or steam cleaner (up to 90 °C).



WARRANTY

All Polyplast polycarbonate sheets are granted a standard 10-year warranty. With prior agreement, the warranty period can be extended to 15 or 20 years by applying additional coatings. Warranty applies to natural material degradation caused by any environmental exposure (sunlight, rain, etc.), including any naturally occurring loss of impact strength and light transmission. Warranty does not apply to structural or mechanical damage caused by strong winds, hail, or excessive snow loads. It will also be rejected in cases of unintended use, incorrect application, or installation-related damage.

A limited warranty for this product is available on request. Quality Manufactured under ISO 9001:2015 to EN 16153:2013+A1:2015.



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