



Spectralite®

INTRODUCING

POLYCARBONATE

SHEET



Lightweight Yet
Stronger Than Glass



Weather &
UV resistant



Long-lasting
Durability



“Unbreakable Strength.
Crystal-Clear Vision.”

AN ISO 9001 : 2015
CERTIFIED COMPANY

INTRODUCING POLYCARBONATE SHEET



▶ INTRODUCTION

Spectralite Polycarbonate Sheet delivers the crystal-clear transparency of glass at less than half the weight, combined with unmatched strength and durability. Engineered for modern architectural demands, Spectralite sheets can be **cold-bend, easily fabricated, and precision cut**—making them the ideal choice for roofing, skylights, glazing, and architectural facades.

Manufactured to the highest international standards, these sheets withstand **scorching summers, torrential monsoons, and freezing winters** while maintaining optical clarity and mechanical integrity.

▶ **ASSOCIATE COMPANY**

THERMALON METAL ROOF PVT. LTD

One of India's pioneers in **insulated pre-coated colour roofing** in galvanized and galvalume steel under the brand **THERMALON**. Established in 2011 in collaboration with **Angle Product Co. Ltd, Thailand**, **THERMALON** Insulated Pre-coated Steel Roofing Systems have earned trust for their **quality, speed, and eco-friendly performance**.

We are first in india to develop a insulation sheets. Also founder of thermalon insulation pasting machine and many more products available like Epe ,Xlpe, Air bubble , Adhesive (special developed for metal insulation) crimping machine , press break machine , Air ventilator set.

With a fully integrated **manufacturing facility in Rajkot**, Gujarat, the brand serves **industrial, commercial, and residential projects** across India and beyond

▶ **COMPANY PROFILE**

SPECTRALITE POLYPLAST PVT. LTD., established in October 2025, is a forward-looking manufacturer dedicated to delivering excellence in the field of polycarbonate sheet solutions. Based at Plot No. 1 to 4, Swati Industrial Zone, Veraval (Shaper), Taluka Kotda Sangani, Rajkot – 360024, the company has set its foundation with a strong vision to serve industries and infrastructure projects with reliable, innovative, and high-quality products.

Specializing in polycarbonate sheets, our product line includes Solid Sheets, Multiwall Sheets, and Extrusion Corrugated Profile Sheet—engineered to offer durability, transparency, and weather resistance for diverse applications. From architectural projects to industrial uses.

At Spectralite Polyplast, our core policy revolves around three principles: Best Quality Products, Fast Service, and Reasonable Price. Every product undergoes stringent quality checks to meet global standards, while our streamlined operations ensure prompt deliveries and excellent customer support.

▶ **MANAGEMENT TEAM**

- ▶ Mr. Bharat Saubhagyachand Vedia - (Chairman)
- ▶ Mrs. Bhartibala Bharat Vedia - (Director)
- ▶ Mr. Jigneshkumar Ashvinbhai Vadalia - (Managing Director)
- ▶ Mr. Ashish Gunvantray Rajpura - (Director)

WHY CHOOSE US?

- ▶ International Quality Manufacturing Standards
- ▶ 14+ Years Of Expertise In Roofing Solutions
- ▶ Advanced Uv Co-extrusion Technology
- ▶ Wide Variety Of Profiles, Thicknesses & Finishes
- ▶ Custom Sizing & colours Available
- ▶ Backed By Thermalon's Proven After-sales Support



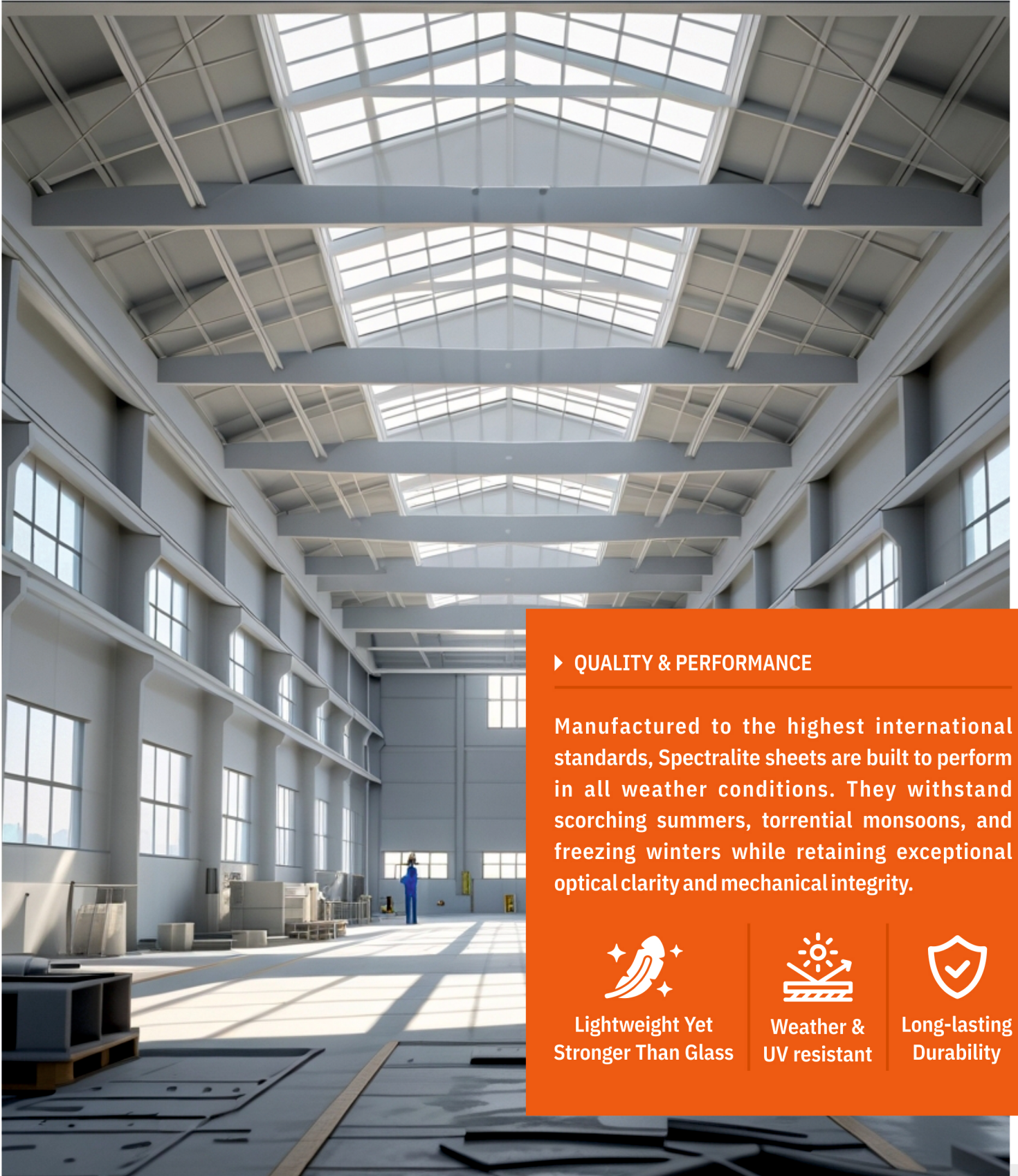
▶ ISO & LAB STANDARD COMPLIANCE

Spectralite Poly Plast products are tested under certified laboratory conditions and meet applicable ISO standards.

Unyielding Power

Perfect Transparency

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SHEET



► QUALITY & PERFORMANCE

Manufactured to the highest international standards, Spectralite sheets are built to perform in all weather conditions. They withstand scorching summers, torrential monsoons, and freezing winters while retaining exceptional optical clarity and mechanical integrity.



Lightweight Yet
Stronger Than Glass



Weather &
UV resistant



Long-lasting
Durability

► **SOLID SHEETS**

Range:
SPECTRALITE COMPACT & SPECTRALITE EMBOSSED

High-impact resistant Spectralite Solid Polycarbonate Sheets offer **glass-like clarity, exceptional impact resistance, and lightweight handling**. Ideal for **facades, skylights, protective glazing, canopies, signage, and machine guards**. Dashboard panel window protective cover shell nameplates auto parts , office partition light box panel shopping mall ,supermarkets , bus stops , subway platforms led light panels , green house , office sound proofing , high speed rail panel, etc.

Pc solid sheet (also known as cablon endurance board , polycarbonate solid board) is an engineering plastic - polycarbonate (pc) processing.



► **VARIANTS**

Clear / Transparent :

Maximum Light Transmission (up To 90%)

Coloured / Tinted / Opaque :

Bronze, Green, Blue, Opal White, Grey For Glare Control & Aesthetics

Embossed / Raindrop / Maze / Diamond :

Diffused Light & Privacy

Specialty :

Mirrored, Bullet-resistant

Uv-stabilized / Uv-coated :

Prevents Yellowing & Degradation

Strength You Can Trust.

Clarity You Can See.

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▶ **SPECIFICATION**

Thickness : 1mm-15mm
 Standard Width : 1000mm- 2100mm
 Standard Length : Std.2.5 M , Custom
 Specific Gravity : 1.2

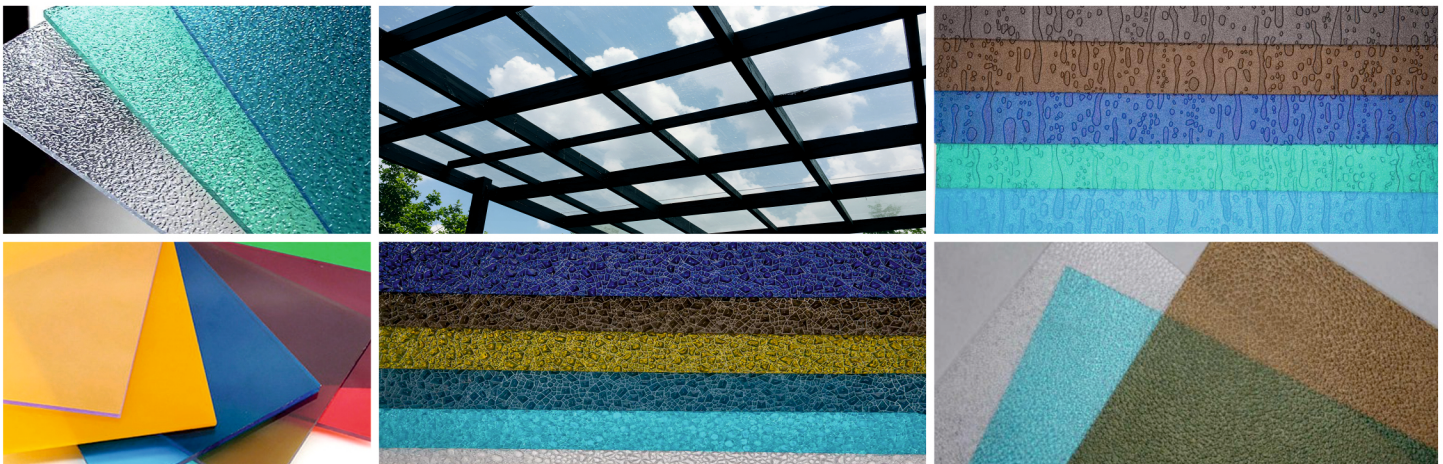
▶ **PRODUCT FEATURES**

- ▶ High impact resistance : the strength is 30 times that of acrylic and 200 times that of glass.
- ▶ Excellent light transmittance : 60% to 92% light transmittance
- ▶ High heat resistance : it can be used in the temperature range of -40.c to 120.c
- ▶ High weather resistance : anti-ultraviolet , anti-aging

▶ **BASIC TECHNICAL PARAMETERS OF SPECTRALITE**

- ▶ Large Size, Light Weight, Easy To Install, Good Sound Insulation
- ▶ Certificated by ISO 9001 : 2015
- ▶ Various Colours

ITEM	UNIT	INDEX VALUE	TEST METHOD
Specific Gravity	g/cm ³	1.2	d-792
Impact strength	j/m	907	d-256
Tensile yield strength	mpa	69	d-638
Tensile Break strength	mpa	71	d-638
Tensile elongation ,yield	%	6.5	d-638
Tensile elongation break	%	120	d-638
Tensile strength	mpa	86	d-695
Tensile modulus	mpa	2400	d-638
Thermal expansion Coefficient	w/m.0c	6.0 x 10 ⁻⁵	d-696
Thermal conductivity	w/m.k	0.22	c-177
Heat deformation temperature (Load 1.81 mpa)	oc	135	d-648
	oc	135	d-648



▶ **MULTIWALL SHEETS**

▶ **ADVANTAGE OF MULTI WALL**



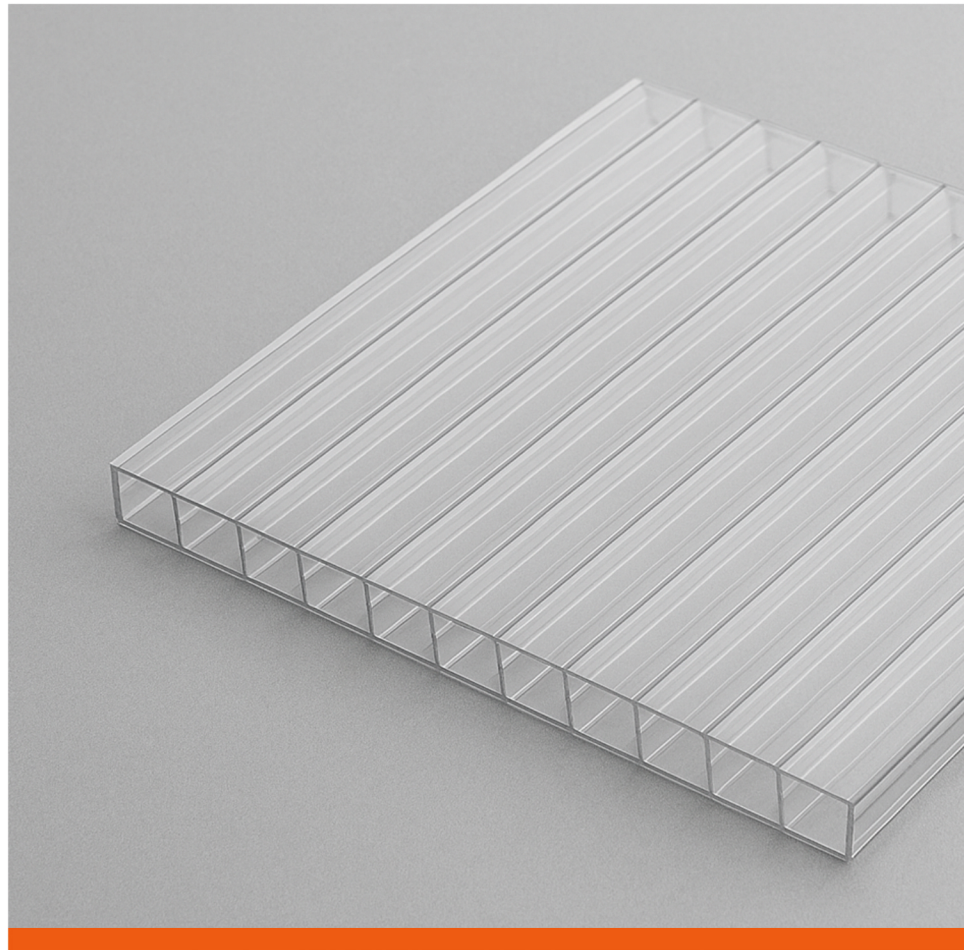
**Lightweight Yet
Stronger Than Glass**



**Weather &
UV resistant**



**Long-lasting
Durability**



ITEM	UNIT
Standard width	1220mm & 2100mm
Standard length	11900mm
UV protection layer	50UM
Soften temperature	148.c
Continuous use temperature	-40.c~120.c
Impact strength	850j/m
Elastic modulus	2400mpa(1mm/ rain.ISO 527)
Tensile stress	63mpa(at yield 50mm/ min ISO 527)
Tensile strain	6% (at yield 50mm/ min ISO 527)
Nominal tensile strain	>50 % (at yield 50mm/ min ISO 527)
Flexural strength	100n/mm2
Specific heat	1.17kj/kg.k
Fire rating	Gb8624-1997 b1
Effect of soundproof	20db

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Standard Colours

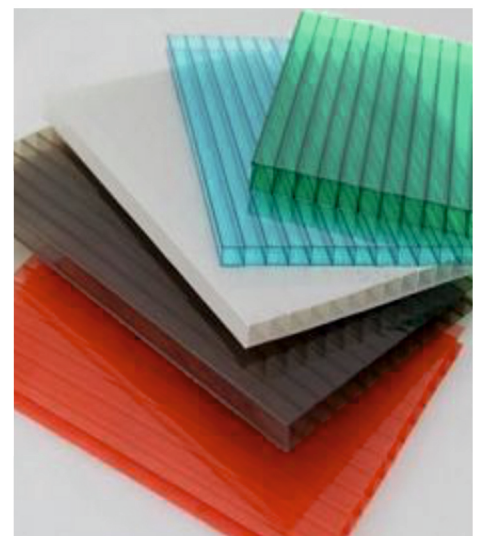
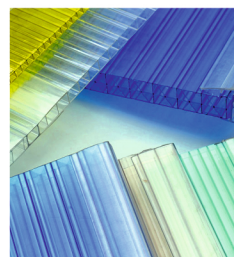
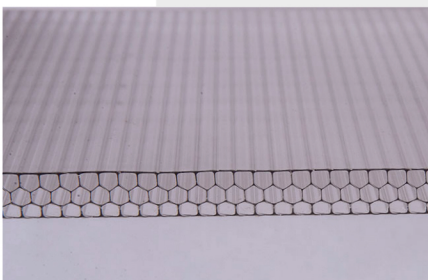
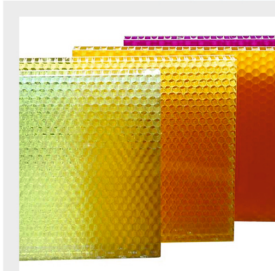
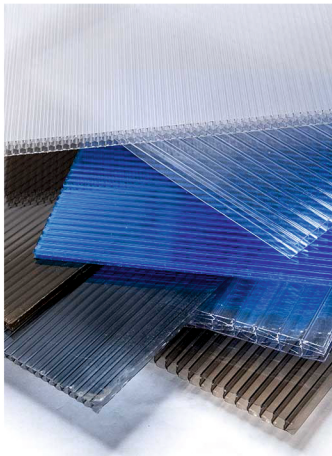
Clear | Bronze | Opal | Blue | Green | Grey / Smoke

Applications

Roofing, Glazing, Greenhouses, Skylights, Cladding, Partitions



Where **Strength**
Meets Perfect **Clarity**



▶ EXTRUSION CORRUGATED PROFILE SHEET

Designed for maximum daylight penetration while matching metal or Fiber roofing profiles.

Light transmittance: light transmittance up to 85%

Weather resistance: the surface is UV-coated, so the appearance does not have to worry about yellowing and aging. Uv coating effectively blocks 99% of ultraviolet rays and has stable photosynthesis for plants.

Impact resistance: the strength is 10 times that of flat glass, 3-5 times that of general corrugated board, and the strength is 250 times that of traditional glass. There is almost no risk of breaking.

Temperature resistance: no deformation and quality deterioration at -40.c to 120.c

Portability: light weight, easy to carry , not easy to break, easy to construct , and excellent in processing.

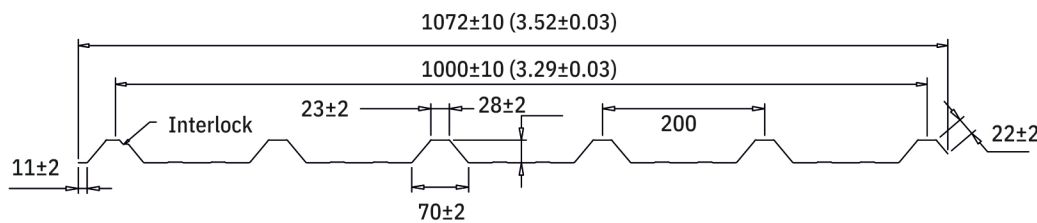
▶ THICKNESS RANGE

- 1 mm – Lightweight
- 2 mm – Standard Roofing
- 3–5 mm – Heavy-duty Load Bearing

▶ APPLICATION AREA

- Daylighting Roof of Large Industrial Plant, Swimming Pool Stadium
- Daylighting Roof, High-speed Rail Station Bus Station And Airport
- Daylighting Roof, New Type Home Villa Lighting Shed , Residential Carport Canopy

▶ PROFILE DRAWING



▶ STANDARD COLOURS

Clear | Opal White | Bronze | Blue | Green | Grey / Smoke | Custom on request

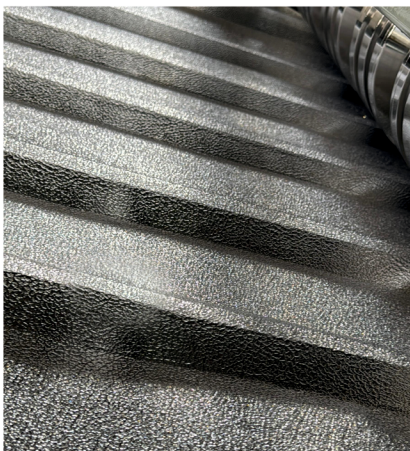
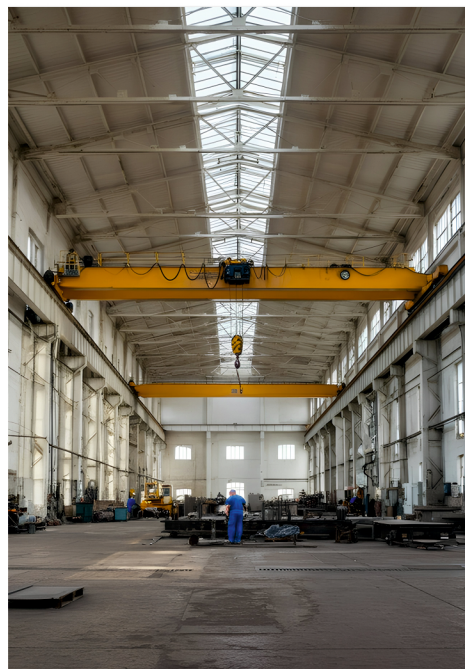
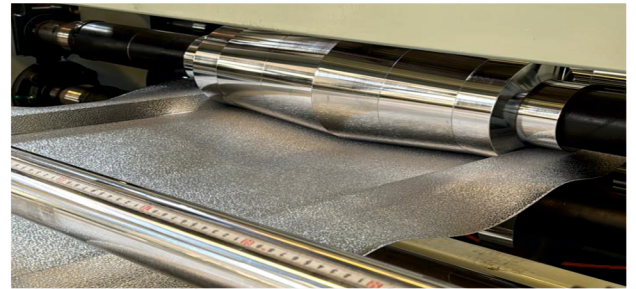
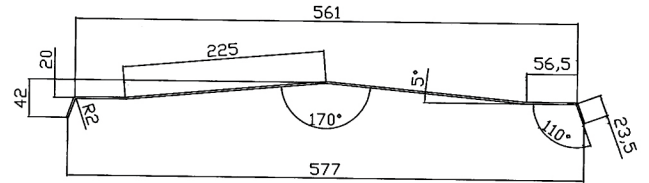
▶ STANDARD SIZES

TYPE	THICKNESS	WIDTH	LENGTH
Solid Sheet	1–15 mm	1.22 M, 2.1 M, Custom	Std. 30.5 M, Custom
Multiwall	4–40 mm	1.22 M, 2.1 M	Std. 11.9 M, Custom
Corrugated	1–3 mm	As Per Profile Drawing	Std. 6 M, 12 M, Custom

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► POLYCARBONATE SSR PROFILE



Eternal **Strength**
Unrivalled **Clarity**





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