

EnergyTech™ Lite

EnergyTech™ Lite is the first step in improving energy efficiency for windows. Our latest addition, EnergyTech™ Lite provides an affordable solution for a Low E performance upgrade. Move to the next level with EnergyTech™ Lite by replacing ordinary single glazing, lift the performance of an otherwise ordinary IGU or boost the performance of a high performance IGU by adding it to surface#4.

EnergyTech™ Lite boasts brilliant aesthetics, abundant natural daylighting and low visible reflectivity. Ideal for typical Australian residential window systems.

Features



Energy Efficiency

EnergyTech™ Lite can keep the temperature of your room controlled, lowering your energy consumption and reducing the need for additional heating and cooling.



Low E Coating

Coating is applied that allows natural light through without emitting radiant heat, maximising light and energy efficiency.



Climate

EnergyTech™ Lite is designed with a consideration for mixed and warmer climates or where mid-range solar control and insulation are desired.



Easy Processing

EnergyTech™ Lite can be toughened, laminated, curved or used in an insulated glass unit.

Product Range

Clear

Available Thickness (mm) 4, 5, 6

Maximum Sheet Size (mm) 5100×3210

Applications

External

Doors, Windows, Shop Front, Roof Glazing, Frameless Glazing

Technical Data

Performance

Single Glazing

Product Name	Nominal Thickness	Visible			Solar		UV Trans.	U-Value		SHGC	Shading Co.	Weight m ²
		Trans.	Refl. Out	Refl. In	Trans.	Refl.		Air	Argon			
EnergyTech™ Lite Clear (#2)	4	84	13	14	76	10	64	4	0.78	0.9	10	
EnergyTech™ Lite Clear (#2)	5	84	12	13	74	10	62	4	0.77	0.89	12.5	
EnergyTech™ Lite Clear (#2)	6	84	13	13	73	10	60	4	0.76	0.87	15	

Double Glazing

Product Name	Nominal Thickness	Visible			Solar		UV Trans.	U-Value		SHGC	Shading Co.	Weight m ²
		Trans.	Refl. Out	Refl. In	Trans.	Refl.		Air	Argon			
EnergyTech™ Lite Clear (#2) + QFloat™ Clear	4+12+4	77	20	20	65	16	52	2.1	1.8	0.7	0.81	20
EnergyTech™ Lite Clear (#2) + QFloat™ Clear	5+12+5	75	18	18	60	14	46	2.1	1.8	0.69	0.79	25
EnergyTech™ Lite Clear (#2) + QFloat™ Clear	6+12+6	75	18	19	58	14	43	2	1.8	0.67	0.77	30
QLam Hush™ Clear + EnergyTech™ Lite Clear (#5)	6.5+12+6	74	18	18	54	13	<1	2	1.8	0.64	0.74	30.5
QLam Hush™ Clear + EnergyTech™ Lite Clear (#5)	8.5+12+6	74	18	18	53	13	<1	2	1.8	0.63	0.72	35.5

Considerations

Application

EnergyTech Lite™ when single glazed, must be single glazed with the exposed coating to the inside of the building (surface #2). When incorporated into IGUs solar control glass products can be glazed with coatings to surface #2 or #3.

Glass Processing

Does not require edge deletion for use in insulated glass units.

Thermal Stress and Fracture Risk

Some products recommended for thermal stress fracture risk assessment.

Large Projects

Oceania Glass recommends that for large glazing facades (particularly curtain wall) the customer should highlight this in writing to enable consideration of colour management of supplied product.

How to Specify

Available colours and thicknesses:

Clear 4, 5 & 6mm

Select from: Annealed, Heat Strengthened, Toughened or Toughened Heat Soaked

If unsure, select in compliance with AS1288–2021 or manufacturers recommendation.

The glass shall comply with the following performance criteria:

- U value
- Solar Heat Gain Coefficient (SHGC)
- Visible Light Transmission %
- Glass Only Values
- Total window

Annealed

Annealed glass is glass produced without internal stresses imparted by heat treatment, i.e., rapid cooling, or by toughening or heat strengthening. Annealed glass is not a Grade A safety glass.

Toughened

Glass converted to a safety glass by subjection to a process of pre-stressing so that, if fractured, the entire piece disintegrates into small, harmless particles. Toughened glass is a Grade A Safety Glass.

Heat Soaking

Heat soak testing is a destructive test, which reduces the likelihood of spontaneous breakage by converting impurities such as nickel sulphide inclusions. Heat soaking is required in some but not all applications. If unsure, select in compliance with AS1288–2021 or manufacturers recommendation.

Heat Strengthening

All glass which requires extra strength and thermal resistance will be heat strengthened. Heat strengthening increases the strength of annealed glass; however, it is not a substitute for toughened glass.

In the event of fracturing heat strengthened glass will crack and tends to remain in glazed position.

All glass is to be selected and installed in accordance but not exclusively with the following Australian and/or New Zealand Standards

- AS 1288 Glass in Buildings Selection and Installation
- AS 1170 Minimum Wind Loads on Structures
- AS/NZ 2208 Safety Glazing Materials in Buildings
- AS/NZ 4666 Insulating Glass Units

- AS/NZ 4667 Quality Requirements for cut-to-size and Processed Glass

Oceania Glass makes and distributes glass. Oceania Glass does not process glass nor produce Insulated Glass Units. Processing of glass and production of Insulated Glass Units is undertaken by independent processors. Speak with your nominated glass processors to understand their processing capability.