

LuxTech™ offers a range of spectrally selective glass for insulated glass units that create the right balance between restricting unwanted heat gain whilst allowing abundant natural daylight.

Suited for commercial and residential builds with large expanses of glazing that require the highest performance in thermal control for energy savings.

## Features



### Energy Efficiency

LuxTech™ can help manage the temperature of your room, lowering your energy consumption and reducing the need for additional heating and cooling.



### Experience Clear Views

Transparent with virtually identical properties to clear glass of the same thickness.



### Low E Coating

Low E coating provides excellent thermal insulation and a choice of solar control for use in IGU's.



### Easy Processing

We have limitless options for IGU configurations. Customise LuxTech™ with other Oceania Glass products to create additional benefits to your glass including privacy, acoustic, security and colour.

## Product Range

### 80-60 Clear

Available Thickness (mm)	4, 5, 6, 8
Maximum Sheet Size (mm)	5100×3210

### 70-35 Neutral

Available Thickness (mm)	6, 8
Maximum Sheet Size (mm)	5100×3210

## 70-30 Neutral

Available Thickness (mm)	6
Maximum Sheet Size (mm)	5100×3210

## 60-25 Neutral

Available Thickness (mm)	6
Maximum Sheet Size (mm)	5100×3210

## 50-20 Neutral

Available Thickness (mm)	6
Maximum Sheet Size (mm)	5100×3210

# Applications

### External

Doors, Windows, Shop Front

Performance

Double Glazing

Product Name	Nominal Thickness	Visible			Solar		UV Trans.	U-Value		SHGC	Shading Co.	Weight m²
		Trans.	Refl. Out	Refl. In	Trans.	Refl.		Air	Argon			
LuxTech™ 80-60 Clear (#2) + QFloat™ Clear	4+12+4	80	14	13	52	30	46	1.7	1.4	0.56	0.64	20
LuxTech™ 80-60 Clear (#2) + QFloat™ Clear	5+12+5	78	13	12	49	28	40	1.7	1.4	0.55	0.63	25
LuxTech™ 80-60 Clear (#2) + QFloat™ Clear	6+12+6	78	13	12	48	27	38	1.7	1.4	0.55	0.63	30
LuxTech™ 80-60 Clear (#2) + QFloat™ Clear	8+12+6	78	11	11	48	25	41	1.7	1.4	0.56	0.64	35
LuxTech™ 80-60 Clear (#2) + EnergyTech™ Clear (#4)	5+12+5	72	15	15	44	29	33	1.4	1.2	0.52	0.6	25
LuxTech™ 80-60 Clear (#2) + EnergyTech™ Clear (#4)	6+12+6	72	15	15	43	28	31	1.3	1.1	0.52	0.59	30
LuxTech™ 70-35 Neutral (#2) + QFloat™ Clear	6+12+6	68	13	15	29	38	22	1.6	1.3	0.33	0.38	30
LuxTech™ 70-35 Neutral (#2) + EnergyTech™ Clear (#4)	6+12+6	63	15	17	27	39	18	1.3	1.1	0.31	0.36	30
LuxTech™ 70-35 Neutral (#2) + QFloat™ Clear	8+12+8	66	13	14	28	36	20	1.6	1.3	0.33	0.38	40
LuxTech™ 70-35 Neutral (#2) + EnergyTech™ Clear (#4)	8+12+8	62	14	16	26	36	16	1.3	1.1	0.31	0.36	40
LuxTech™ 70-30 Neutral (#2) + QFloat™ Clear	6+12+6	68	11	13	26	41	17	1.6	1.3	0.29	0.34	30
LuxTech™ 70-30 Neutral (#2) + EnergyTech™ Clear (#4)	6+12+6	63	13	15	24	42	14	1.3	1.1	0.28	0.32	30
LuxTech™ 60-25 Neutral (#2) + QFloat™ Clear	6+12+6	59	11	15	22	36	20	1.6	1.3	0.26	0.3	30
LuxTech™ 60-25 Neutral (#2) + EnergyTech™ Clear (#4)	6+12+6	55	12	17	20	37	16	1.3	1.1	0.24	0.28	30
LuxTech™ 50-20 Neutral (#2) + QFloat™ Clear	6+12+6	46	16	18	16	38	7	1.6	1.3	0.19	0.22	30
LuxTech™ 50-20 Neutral (#2) + EnergyTech™ Clear (#4)	6+12+6	43	17	20	14	38	6	1.3	1.1	0.18	0.21	30

# Considerations

LuxTech™ is a range of products used in Insulated glass units comprising of a minimum of two glass panels separated by a cavity. The cavity is usually filled with argon gas to optimise thermal insulation.

**LuxTech™ cannot be supplied as a single glazed panel.** Please consult Oceania Glass if your project requirements call for both double and single glazing.

The most common and typically cost-effective makeup is 6mm/12mm gap/6mm. Other makeups are possible.

LuxTech™ is a Low E coated unit. The optimum position for the Low E coating is on surface 2 but can be accommodated on surface 3 if required.

Changing the position of the coating does alter the performance. Please consult Oceania Glass to discuss any changes to makeup.

## Glass Processing

Requires edge deletion for use in Insulating glass units. Please consult Oceania Glass for further information on processing of LuxTech™.

## 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:

<b>80-60 Clear</b>	4, 5, 6 & 8mm
<b>70-35 Neutral</b>	6 & 8mm
<b>70-30 Neutral</b>	6mm
<b>60-25 Neutral</b>	6mm
<b>50-20 Neutral</b>	6mm

Other thicknesses may be available upon request.

Select from: 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 where it meets the requirements of AS/NZS 2208 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.

**Toned Glass**

Toned glass absorbs a proportion of solar radiation and may require a thermal assessment depending on application.

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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.