



ENERGY

ThermoTech™

Customised double glazing

ThermoTech™ insulated glass units (IGU) have been developed to incorporate a wide range of glass products to keep your space comfortable and energy efficient.

By incorporating different glass types from across our product range within a ThermoTech™ IGU, a number of additional benefits can also be achieved such as privacy, security, noise reduction and energy efficiency.

ThermoTech™ can also incorporate a warm edge spacer which provides outstanding levels of solar control, thermal insulation and overall energy efficiency for commercial building envelopes. It also offers enhanced structural integrity combined with sustainability, durability and UV stability.

Features and Benefits

- Increased insulation and reduced energy costs.
- Suitable for hot and cold climates.
- ThermoTech™ can incorporate different glass types from across our product range to provide additional benefits such as privacy, security, noise reduction and energy efficiency.





Considerations

Installation

- Suitability of glazing compounds, sealants and gaskets need to be approved by Viridian.
- Units must not be stored externally or expose to prolonged moisture prior to installation as this can result in seal failure.
- The frames must incorporate impervious weather seals or an efficient self-draining system.
- When transporting and/or installing at altitudes of 800m and above, special air pressure equalisation requirements may apply and must be brought to the attention of Viridian.
- Ensure any coated surfaces are identified and oriented for optimal performance.

Standards

- Wind load and safety determine the type and thickness of glass required, refer to AS 1288.
- The Viridian Warranty relies on frame design in accordance with AS/NZS 4666.

Sectors

- Residential
 - Multi storey apartments
- Commercial

Applications

- Windows
- Doors
- Facades

How to Specify

- **Select glass processor**
Viridian Glass
- **Select glass name**
ThermoTech™
- **Select tone & thickness**
Custom sizes available, consult Viridian.
- **Select processes**
Insulated glazed unit.
- **Select spacer**
 - Warm Edge
 - Aluminium

Performance Data

Product Name	Outside Glass	Inside Glass	Nominal Thickness (mm)	VLT (%)	U Value	SHGC	Selectivity
ThermoTech™ Clear	VFloat™ Clear	VFloat™ Clear	6+12+6	78	2.50	0.71	1.10
ThermoTech™ Clear	VFloat™ Clear	VFloat™ Clear	8+12+6	77	2.50	0.66	1.17
ThermoTech™ Clear	VFloat™ Clear	VFloat™ Clear	10+12+6	76	2.50	0.64	1.19
ThermoTech™ Clear	VFloat™ Clear	VFloat™ Clear	12+12+6	75	5.00	0.61	1.23
ThermoTech™ Light Grey	VFloat™ Light Grey	VFloat™ Clear	6+12+6	54	2.50	0.54	1.00
ThermoTech™ Grey	VFloat™ Grey	VFloat™ Clear	6+12+6	37	2.50	0.45	0.82
ThermoTech™ Grey	VFloat™ Grey	VFloat™ Clear	10+12+6	23	2.50	0.38	0.61
ThermoTech™ Grey	VFloat™ Grey	VFloat™ Clear	12+12+6	19	2.50	0.34	0.56
ThermoTech™ Grey	VLam™ Grey	VFloat™ Clear	6.38+12+6	37	2.50	0.49	0.76
ThermoTech™ Green	VFloat™ Green	VFloat™ Clear	6+12+6	66	2.50	0.47	1.40
ThermoTech™ Green	VFloat™ Green	VFloat™ Clear	10+12+6	59	2.50	0.39	1.51
ThermoTech™ Bronze	VFloat™ Bronze	VFloat™ Clear	6+12+6	45	2.50	0.53	0.85
ThermoTech™ Bronze	VFloat™ Bronze	VFloat™ Clear	10+12+6	30	2.50	0.41	0.73

Note: All performance data is determined using LBL window 7 software. NFRC 100 - 2010 conditions have been used. Glass surfaces are counted from the exterior to the interior of the building. Refer to Viridian Performance Data for more values.

ThermoTech™ is a trademark of Viridian Glass Pty Ltd.