

An MHG Company

CoolRayTM

High Performance Insulated Glass

solos  glass
see the possibilities

CoolRay™ High Performance Insulated Glass

Environmental control

CoolRay™ is designed to allow high levels of light transmittance in combination with low levels of solar heat gain and an excellent low U Value.

CoolRay™ offers superior solar control and energy efficiency performance along with outstanding neutral aesthetics. Particularly suited for medium to high rise facades and curtain walls, the high performance characteristics of CoolRay™ provide architects and designers with exceptional functionality and excellent design flexibility.

Benefits

- High light transmission
- Excellent VLT to SHGC ratio (selectivity)
- Low U value of 1.3 W/m²K
- High degree of aesthetic neutrality both in transmission and reflection
- Large IGU sizes available
- Outstanding management of the levels of internal comfort, reduced solar heat gain, optimum internal lighting and overall energy efficiency
- Can be combined with a number of specialist products to provide additional acoustic, decorative and security solutions for a wide range of applications

Applications

- Curtain walls
- Medium to high rise facades



CoolRay™ High Performance Insulated Glass

High performance, solar control insulated glass

Incorporating a high performance Low E coating encapsulated within the IGU itself, CoolRay™ is able to balance all of its key performance attributes to offer high levels of energy efficiency and continual passive control of the internal environment all year round.

By significantly reducing solar heat gain during warmer months and minimising heat loss in cooler months, CoolRay™ provides a comfortable living space and facilitates a reduction in overall energy costs without compromising on the level of available light transmittance.

The CoolRay™ range

With four distinct levels of performance, the individuality of each products selectivity is supported by exceptional neutrality combined with consistently low U Values.

Available as heat treated (heat strengthened and toughened) IGU's in a maximum size of up to 6000mm x 3210mm, CoolRay™ IGU's are supplied with 90% argon fill as standard and are available with either a black aluminium or high performance OptEseal™ warm edge spacer. The Low E coated glass component of the CoolRay™ IGU is available in 6mm, 8mm* or 10mm* thicknesses as standard.

Product	Norm	VLT (%)	SHGC (%)	External Light Reflectance LRe (%)	Internal Light Reflectance LRi (%)	U-Value (W/m²k) 12mm Argon
CoolRay™ 70	NFRC	68	0.33	13	15	1.3
CoolRay™ 60	NFRC	60	0.31	16	17	1.3
CoolRay™ 50	NFRC	50	0.25	18	22	1.3
CoolRay™ 40	NFRC	41	0.21	20	15	1.3

Performance data based on 6mm CoolRay™ / 12mm Argon / 6mm EnviroClear™ IGU with aluminium spacer and coating on surface #2; measured to NFRC 100. *Contact us to discuss contractual volume requirements.