

McLam Energy Saving Glass[®] (ESG) from McCoy's

A first in South Africa,
manufactured in
South Africa.

MANUFACTURED
BY MCCOY'S

The glass of the future which
saves you energy and money.

Introducing McLam[®] ESG, yet another innovative
innovative product from McCoy's, Leaders in Glass:

- Reduces heat transfer through windows
- Keeps interiors cooler in summer
and retains heat in winter.
- Reduces carbon footprint.
- Developed in collaboration with
Pilkington Technical Centre, UK.

Lower your heating and cooling costs –
without ruining your view.

Unlike some other glass products, McLam[®] ESG is
not heavily tinted and the coating is not reflective or
mirror-like, which means your views are never
compromised.

McCoy's is proud to add this pioneering product to
the McCoy's range – a 6,38mm thick safety glass that
not only saves you money, but also reduces your
carbon footprint.

How it works:

We laminate a glass with a high-performance low E
coating which improves heat loss and gain through
the window. The coating is transparent and as hard as
a normal glass surface.



McCoy's
Leaders in
Glass



McLam[®]
**Energy
Saving
Glass[®]**

For more information on McLam[®] ESG, and any other McCoy's
Glass products, or to order, please contact McCoy's Glass
Solutions on 0860 55 22 22, or visit www.mccoysglass.co.za.

Features:

Insulation

This glass offers almost 38% improvement in U Value (a measure of non-solar heat loss and gain) over standard glass, meaning less heat is lost from the interior of the structure during winter, and less heat is transmitted during summer months. This results in lower heating and cooling costs.

Transmission

McLam® ESG lets in the light – not the heat. Up to 83% of daylight is transmitted with ESG Clear, while up to 50% of solar heat is eliminated with ESG Green and Grey.

Sound reduction

A tough Polyvinyl Butyral (PVB) interlayer reduces unwanted noise by approximately 40 % when compared with standard 4mm glass, providing a quieter and more peaceful environment in which to live or work.

Fading (UV light) reduction

McLam® ESG saves even more money because it minimises the fading of furniture, curtains and carpeting, significantly increasing their life through the reduction of damaging ultra violet radiation.

Safety

McLam® ESG complies with SANS 1263: “Safety and security glazing materials for buildings – Part 1: Safety performance of glazing materials under human impact.” It is a safety glass that remains in place if broken.

Colour options

A selection of colours is available.

Security

Thicker interlayers are available to improve resistance to physical attacks.

Applications

McLam® ESG can be used for both residential and commercial applications.

Points to remember:

- Before ordering, samples should be viewed.
- Where colour consistency is important, only use one thickness.
- Haze may be perceived under certain lighting conditions.
- Low E Coating to face interior

Specific components are used to enable McLam® Energy Saving Glass® to function. Beware of imitations as they may not give the intended, or equal performance. Ensure that you specify McLam® Energy Saving Glass®.

SINGLE GLAZED	PRODUCT		VISIBLE LIGHT		SOLAR ENERGY					SHADING COEFFICIENT SINGLE GLAZING	U VALUE	SAFETY
	Nominal Thickness	Description	Transmission %	Reflection %	Total Elimination %	Reflectance %	Absorption %	Direct Transmission %	SHGC	Ratio	W/m2.K	Rating
	6,38mm	McLam® ESG® GREY SAGDB ZA200201	40	6	50	7	52	41	0,50	0,59	3,7	Complies with SABS 1263 Part 1
	6,38mm	McLam® ESG® NEUTRAL SAGDB ZA200203	59	7	49	7	52	41	0,51	0,59	3,7	Complies with SABS 1263 Part 1
	6,38mm	McLam® ESG® GREEN SAGDB ZA200202	71	9	50	7	52	41	0,50	0,59	3,7	Complies with SABS 1263 Part 1
	6,38mm	McLam® ESG® CLEAR SAGDB ZA200200	83	10	30	9	26	65	0,70	0,80	3,7	Complies with SABS 1263 Part 1

DOUBLE GLAZED SIGU	PRODUCT		VISIBLE LIGHT		SOLAR ENERGY					SHADING COEFFICIENT SINGLE GLAZING	U VALUE	SAFETY
	Nominal Thickness	Description	Transmission %	Reflection %	Total Elimination %	Reflectance %	Absorption %	Direct Transmission %	SHGC	Ratio	W/m2.K	Rating
	25mm	SIGU Mclam Energy Saving Glass GREY outer/12mm airspace/ 6mm Clear inner	37	8	57	8	58	34	0,43	0,50	1,9	Complies with SABS 1263 Part 1
	25mm	SIGU Mclam Energy Saving Glass NEUTRAL outer/ 12mm airspace/ 6mm Clear inner	52	10	57	8	58	34	0,43	0,49	1,9	Complies with SABS 1263 Part 1
	25mm	SIGU Mclam Energy Saving Glass GREEN outer/12mm airspace/6mm Clear inner	63	13	57	8	58	34	0,43	0,50	1,9	Complies with SABS 1263 Part 1
	25mm	SIGU Mclam Energy Saving Glass CLEAR outer/12mm airspace/6mm Clear inner	74	15	38	12	36	52	0,62	0,71	1,9	Complies with SABS 1263 Part 1

Performance determined using LBL Window and Optics programs with NFRC 100-2001 environmental conditions.

To avoid the possibility of thermal stress fracture, it is advisable to request that a thermal stress evaluation be conducted by a competent person (glazing).

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