



IMPORTANT NOTE

Technical data and contents may not be current.

Please use the print option from the website for current information



LITE-POINT

Patent pending

Glass facade with passive solar energy use

2. Technical Information

LITE-POINT SOLAR

Thermal Insulation with Solar Gain

New ways of Facade design have been established through the combination of coloured insulating materials and the use of solar energy. The energy radiation is partially transmitted; absorbed in the insulation and given-off as heat.

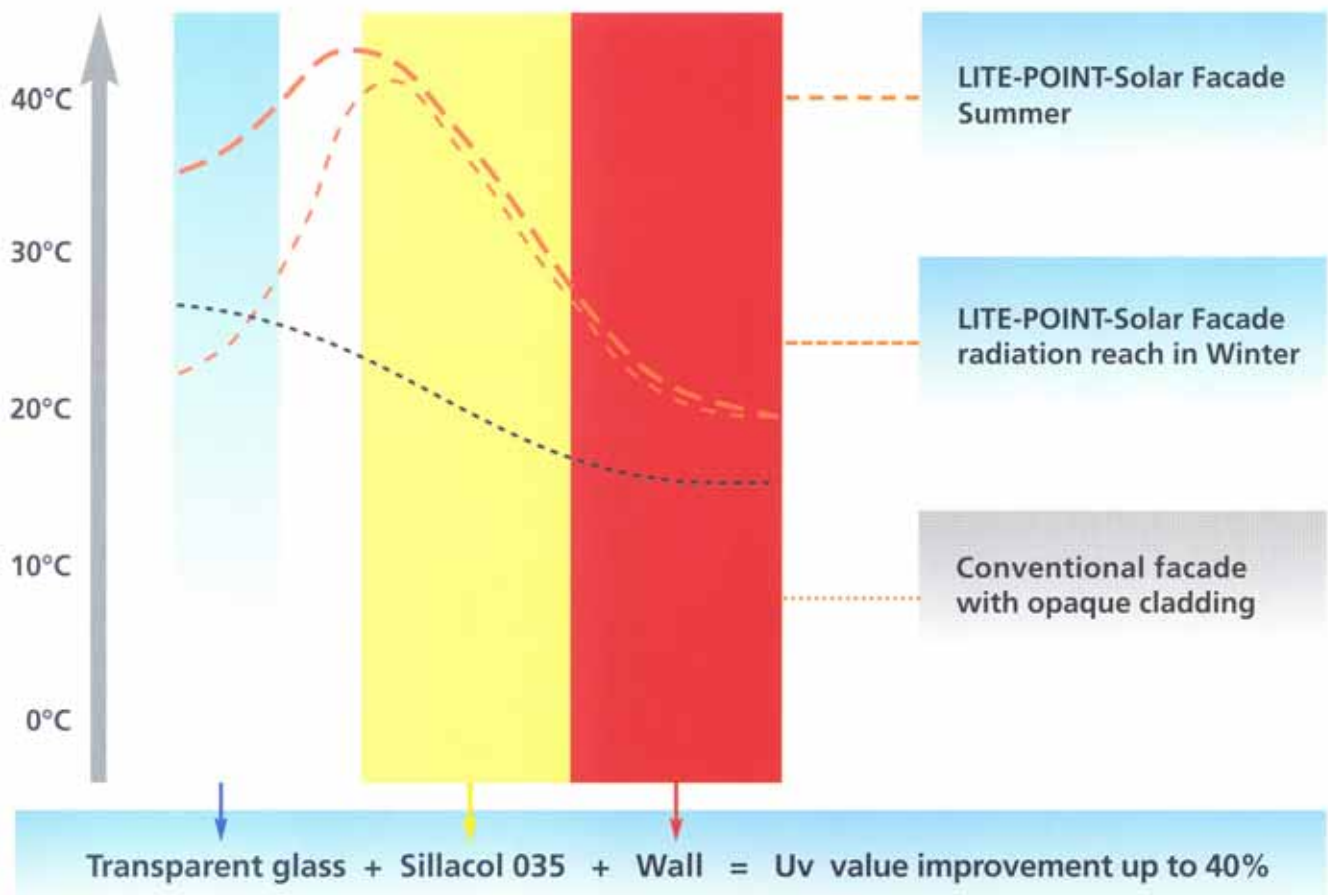
This heat acts as a contra-heating. The peak temperature lies in the insulation layer. Solar energy is therefore passively gained.

The design and optical appearance of this Glass facade is possible to control individually through use of coloured mineral wool insulation sheets in combination with the glass pattern and colour. This gives the facade designer a complete new range of design parameters.

Colours of Sillacol insulation layers:

Light grey, dark grey, light blue, dark blue, green
Thickness: 60, 80 mm

Local temperature distribution in various insulated back-ventilated facades.



Glass facade with passive solar energy use

2. Technical Information

LITE-POINT SOLAR

Thermal Insulation with Solar Gain

New ways of Facade design have been established through the combination of coloured insulating materials and the use of solar energy. The energy radiation is partially transmitted; absorbed in the insulation and given-off as heat.

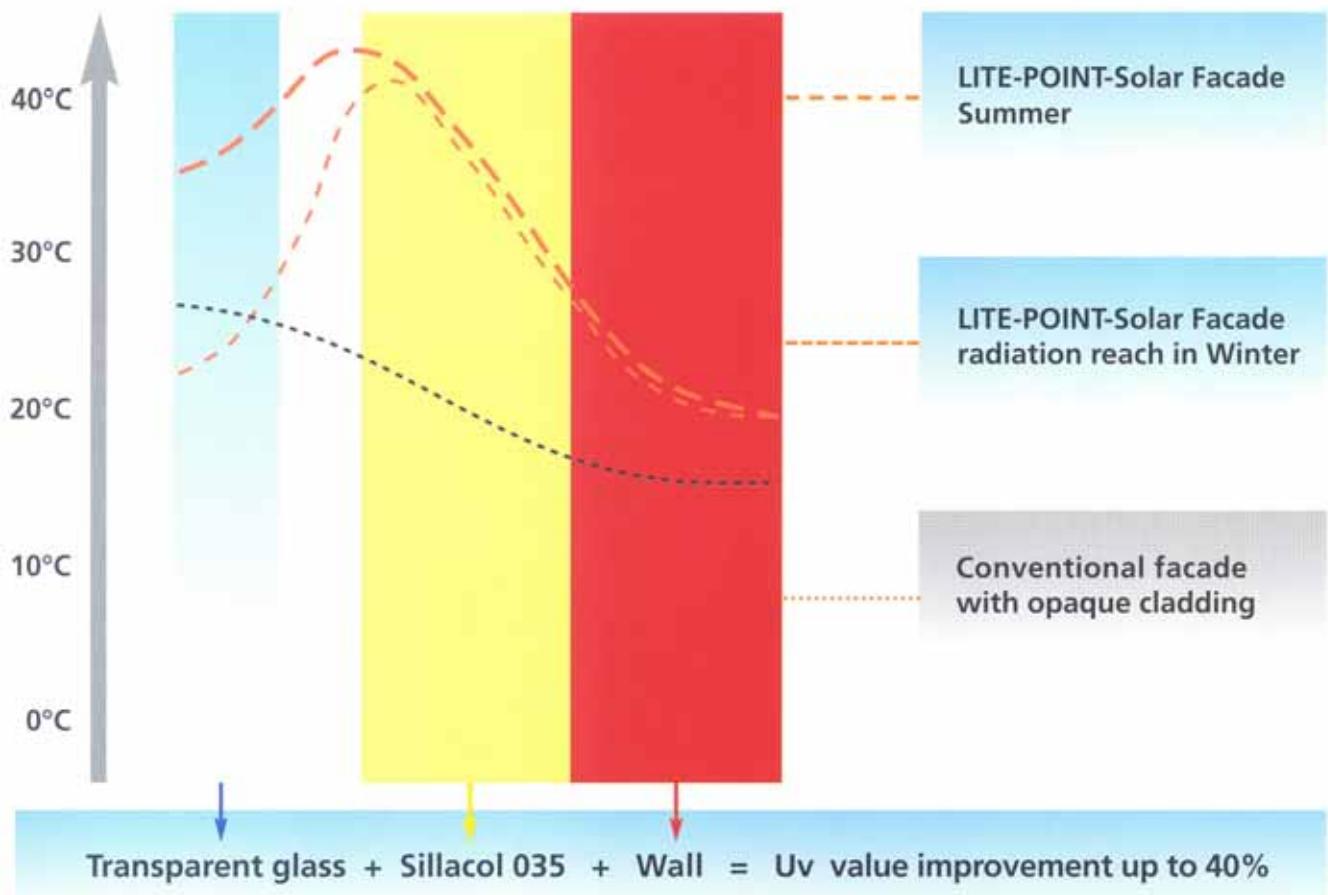
This heat acts as a contra-heating. The peak temperature lies in the insulation layer. Solar energy is therefore passively gained.

The design and optical appearance of this Glass facade is possible to control individually through use of coloured mineral wool insulation sheets in combination with the glass pattern and colour. This gives the facade designer a complete new range of design parameters.

Colours of Sillacol insulation layers:

Light grey, dark grey, light blue, dark blue, green
Thickness: 60, 80 mm

Local temperature distribution in various insulated back-ventilated facades.



LITE-POINT

Glass facade with passive solar energy use

3. System Connection for LITE-POINT and LITE-POINT SOLAR

The concept of LITE-POINT stems from the system components of Glass, Sub-Frame and Anchor.

Should Eckelt be contracted for all components of a facade, a project-specific structural analysis is provided including anchor pull-out tests. Such tests are free-of-charge for Projects in Austria, when it is advised prior to Quotation.

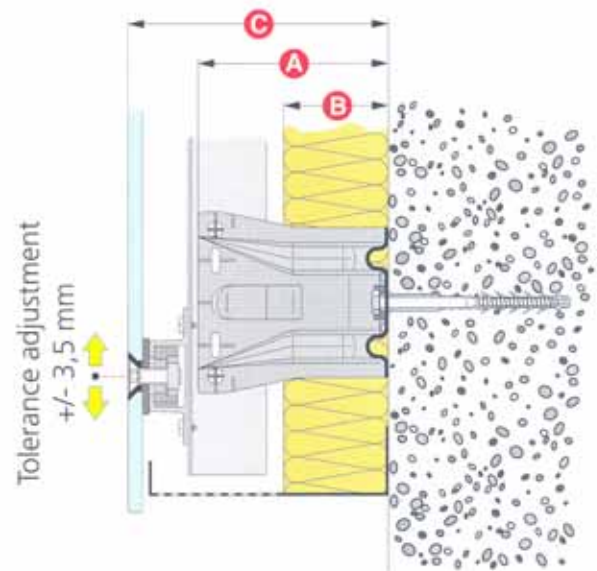
You can find design and installation drawings on our CD-ROM "Glass Systems" You can request our CD-ROM including all updates from the following:

e-mail: vertrieb@eckelt.at

Fax: 0043/7252/894-24

4

Section through System



A Bracket length

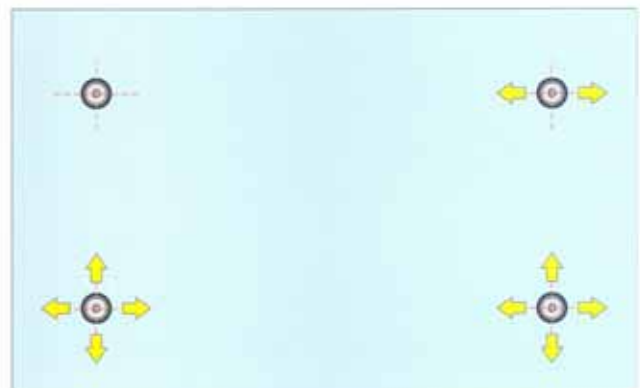
B max. thickness of insulation

C distance wall to outer surface of glass

	A	B	C
85	60	130	
110	80	155	

(Dimensions in mm)

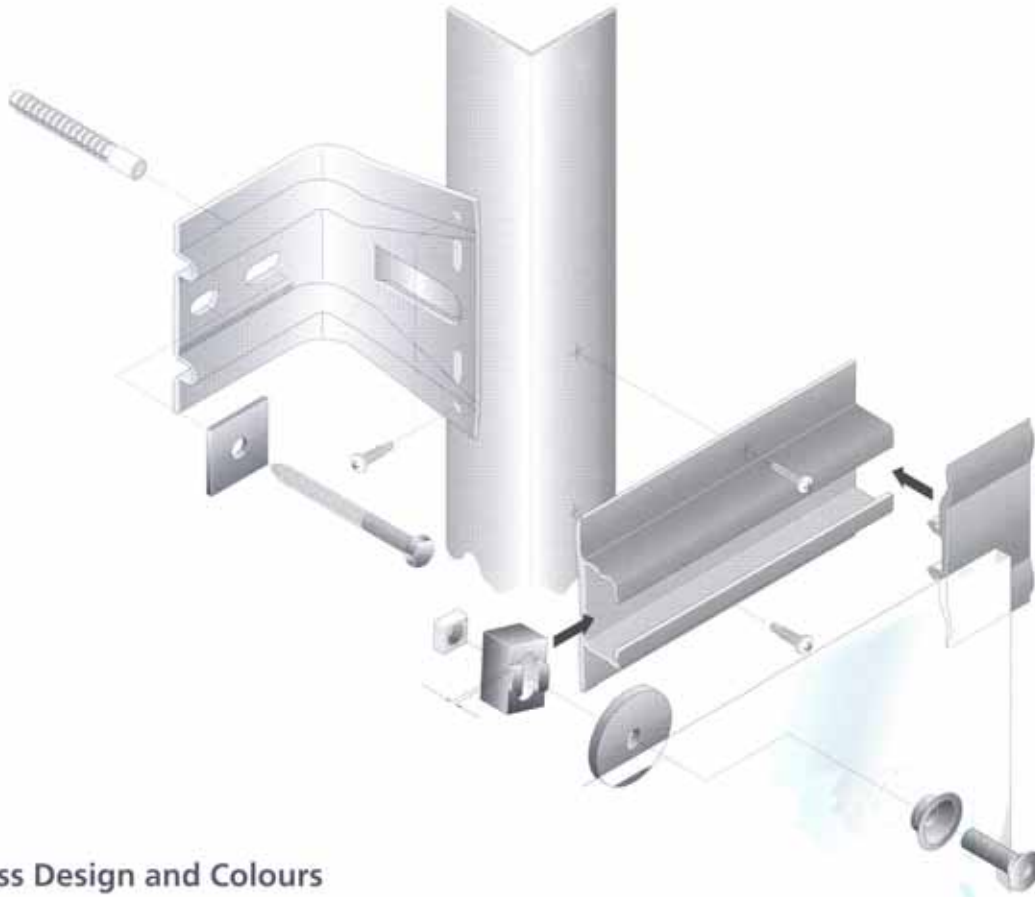
Principal of fixed and sliding support



Housing Project Carminweg
Architect: Elsa Prochazka, Photography: Rupert Steiner

Glass facade with passive solar energy use

Construction detail



5

4. Glass Design and Colours

The aesthetics of such glass facades can be enhanced by the variation in basic ideas - a change in glass pattern; colour mixture etc.. can achieve a functional, artistic and ecological appearance. All glass is produced in accordance with DIN 1249 Part 12 / BS 6206 Class A, and are Heat-Soak tested. Edges are fine ground.

LITE-POINT SOLAR

Glass types:

Glass partially transparent:	Design and colour as LITEX Collection
Glass translucent:	SATINATO
Cast Glass:	SECURIT Masterpoint
	SECURIT Mastercarree
	SECURIT Masterligne
	SECURIT Masterray
	SECURIT Listral

Glass thickness: 8, 10 mm

Dimensions

Recommended maximum dimensions 240 x 120 cm with 4-, 6- or 8-point-fixing connections
Minimum edge distance for holes in corner:
80 x 120 mm

You can find all Design patterns and colour combination on our CD-ROM "Glass Systems". You can request our CD-ROM including all updates from the following:

e-mail: vertrieb@eckelt.at
Fax: 0043/7252/894-24

LITE-POINT

Glass facade with passive solar energy use

LITE-POINT

Glass types: Opaque Glass
EMALIT Colour as LITEX-Collection
METALIT
METALLIC

Glass thickness: 8, 10 mm

You can find all Design patterns and colour combination on our CD-ROM "Glass Systems". You can request our CD-ROM including all updates from the following:

e-mail: vertrieb@eckelt.at
Fax: 0043/7252/894-24



6



Tagesheim Carminweg, Architect: Elsa Prochazka, Vienna; Photography: Rupert Steiner, Vienna

LITE-POINT

Glass facade with passive solar energy use



7

AEZ, Vienna - LITE-POINT Facade-detail, Vision areas LITE-WALL Iso
Architect: Artur Duniecki; Photography: Trizeps; Facade-installation MATEC-Sauritschnig

Glass Systems

SGG LITE-WALL
SGG LITE-POINT
SGG VARIO
SGG DLS

Point-fixed glazing system
Facade cladding system
Insulating glass with all-glass appearance
System solution for day-lighting control

- DLS Fish
- DLS micro-louvre
- DLS Litestar
- DLS Eclipse

SGG LITE-FLOOR
SGG ROOF-LITE
SGG SERALIT-LITEX
SGG EMALIT
SGG METALIT
SGG TRANSRADIAL

Walkable glass
Canopy system
Design
Glass cladding
Glass cladding
Curved glass

SGG CLIMAPLUS SOLAR CONTROL
SGG CLIMAPLUS SILENCE
SGG CONTRAFLAM F 30, F 60, F 90
SGG FIVESTAR
SGG SWISSFLAM
SGG CLIMATOP SOLAR
SGG CLIMAPLUS

Solar control
Acoustic control

Fire resistant glass G 30
Fire resistant glass F 30
Solar glass
Thermal Insulating glass

SGG SECURIT
SGG STADIP
SGG STADIP PROTECT A
SGG STADIP PROTECT B
SGG STADIP PROTECT C
SGG STADIP PROTECT D

Toughened safety glass (ESG)
Laminated safety glass (VSG)
Projectile-resistant
Penetration-resistant
Bullet-resistant
Explosion-resistant

SGG SECURIT HSW
SGG SECURIT PORTAL
SAPHIR

Sliding glass walls
All glass doors
Fitting system

Engineering, consulting, site installation and supervision.

ECKELT
MORE THAN GLASS

ECKELT GLAS GmbH.
Resthofstraße 18, A-4400 Steyr, AUSTRIA
Tel: +43-7252-894-0, Fax: +43-7252-894-24
e-mail: vertrieb@eckelt.at or export@eckelt.at

Your Sales Representative: