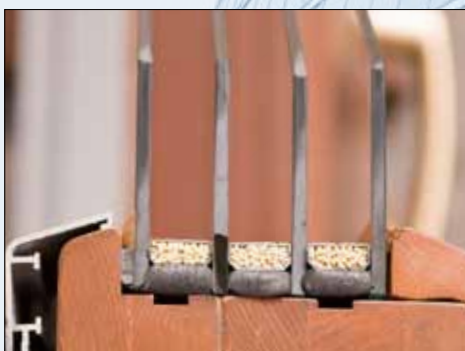




EFFECT GLASS



GLAZING UNITS



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aluminum & glass

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therm effect

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QUALITY POLICY:

Quality Management Policy of EFFECT GLASS SA

Quality Policy in EFFECT GLASS SA results from long-term business development strategy, which aims to maintain a strong and stable position in the market among glazing units producers and strengthening of the opinion of responsible and reliable partner in business, who takes into account the needs of its customers, employees and society in pursuit of profit.

The main directions of the quality objectives are:

- striving to increase customer satisfaction through a systemic approach to quality and continuous improvement of the effectiveness of the Quality Management System according to the norm PN - EN ISO 9001:2009;
- monitoring and continuous improvement of manufacturing processes and finding new solutions to meet the needs and expectations of customers, while meeting the applicable legal and other requirements, thereby enhancing confidence in Effector brand, which endorses our products;
- transferring quality management policy tasks for all organizational units of EFFECT GLASS SA, in order to improve effectiveness and efficiency of operations;
- improving customer relationships through continuous improvement of products, timely delivery and professional service;
- improving relationships with glass suppliers through a position of a reliable partner development;;
- improving the skills of our employees, through systematic training, to ensure product quality and increasing efficiency of production processes;
- implementation of the principle that all employees are responsible for the quality, from the Company Chairman, and ending with the simplest operations of the contractor;
- development of the belief among all workers that the responsibility for quality is synonymous with responsibility for the company.

EFFECT GLASS S.A.

On 22 June 2011 the company so far operated under the name EFFECTOR II SA changed its name to GLASS EFFECT SA and introduced a new visual identity system. EFFECTOR II SA Company was established in September 2007 and was separated as a separate and independent legal entity from EFFECTOR SA Company, from which it all began...

In response to still increasing market demand, and by consistently pursued a development strategy in 1995 in Kielce EFFECTOR SA (initially operated only in Włoszczowa and engaged in manufacturing aluminum drip gutter to wooden windows) opened a second plant specializing in manufacturing construction glass and glazing units production. Nowadays the plant has one of the most modern machinery for the production of glazing units in Poland, based on advanced technical solutions of Austrian company PETER LISEC. In 2002, the Glazing Production Plant in Kielce was enriched with another line for glass cutting, fully automatic line for joining and the latest generation of molecular sieve device and spacer bending machine. They enable the processing of both aluminum profiles, as well as „hot spacers” made of steel and plastic. In early 2003 new production hall of an area of nearly 2000 m² also started operating. In September 2006, in Starogard Gdański the plant was established to serve customers in the northern Poland.

In 2011, Effect Glass Company, beyond the construction of another production hall, was also enriched by the device for glass hardening in the most modern technology - the LISEC brand. During the glass hardening process, glass sheet is based on the air bag at a right angle (not on the rolls, as in a traditional oven), so that a rippling effect of glass, which distorts the image, can be offset. Equipment for glass cutting and treatment with water flow - waterjet, which allows finishing the edges of the glass with many possibilities, was purchased as well.

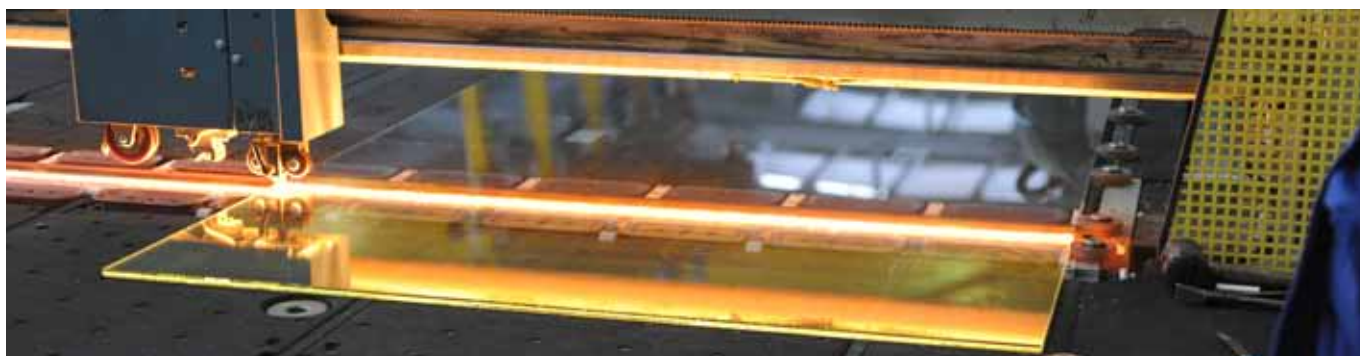


EFFECT GLASS S.A. has an innovative, integrated computer system that supports all areas of a plant operation, starting from the order, through the entire production cycle, and ending with the packaging and shipping of finished products. Constantly expanded and modernized own transport fleet, which now already exceeds the number 150 vehicles, is equipped with lift trucks and hds unloading system. Developed vehicle fleet in conjunction with the type of packaging and panes identification have become a showcase of the company EFFECT GLASS SA.

Thanks to the production process automatisisation, highly qualified staff and referencing only the best, proven suppliers present production capacity of both plants exceed ten thousand pieces of glazing a day. Maximum size of produced panes is 2700 x 5000 mm. In terms of production volume and timing of implementation it allows meeting expectations of even the most demanding Customers.

EFFECT GLASS S.A. uses glass of the world's most reputable companies for manufacture: PILKINGTON, SAINT-GOBAIN, GUARDIAN, AGC. Suppliers of sealants are: FENZI, TENA-CHEM, of molecular sieve: CECA Company, distance profiles: ALUPROF and SAINT GOBAIN. The companies HELIMA and ECO IN are suppliers of bars between panes. All major suppliers have implemented quality systems ISO 9000.

Products manufactured by EFFECT GLASS are Effector brand and have all the required certificates and relevant test certificates of the Institute of Glass and Ceramics, a confirmation of their high quality and reliable customer service is the Certificate of Quality Management System according to PN - EN ISO 9001:2009.





EFFECTOR
therm effect

HEAT PROTECTION PANES





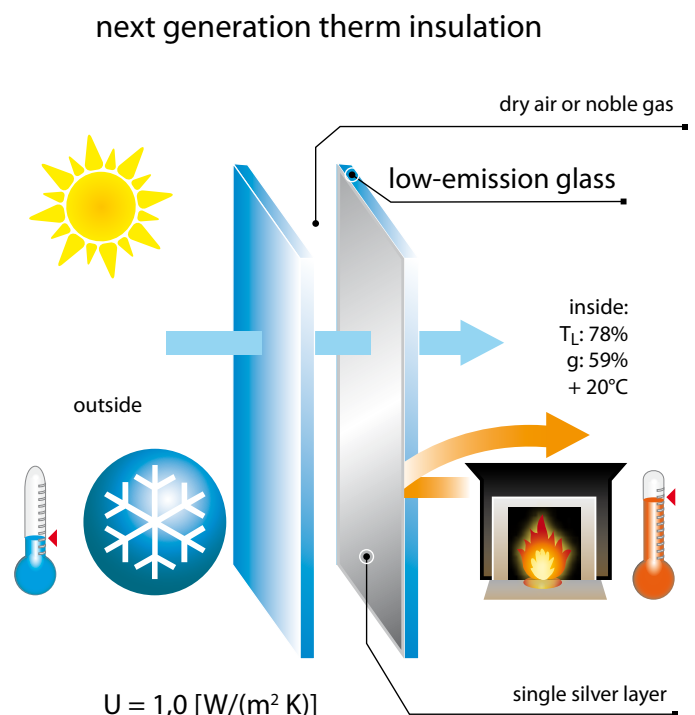
Heat protection panes are a consequence of continuous technological progress and the pursuit of modern construction to minimize the demand for heating, and the relevant building insulation plays an increasingly important role. Modern energy management consists primarily of reducing energy losses and the controlled use of free solar energy.

Double glazing heat protection panes Effector Therm Effect are produced from low-emission, soft coating glass, which is produced in the „off line“ process, i.e. metallic coating is applied to the surface off float glass production line. The value of emission coefficient of the coating is several times lower than the glass. Double glazing unit made of this type of glass allows to achieve excellent parameters: high daily light transmittance, the lowest possible U heat transfer coefficient, the greatest transparency, color neutrality and optimal energy transmittance (Effector Therm Effect pane with space between panes filled with the noble gas (argon) reaches heat transfer coefficient $U = 1.0 \text{ [W / (m}^2 \text{ K)]}$).

Double glazing heat protection panes Effector Therm Effect

The rising prices of traditional energy, dwindling energy resources, harmful emissions reduction associated with carbon dioxide to the environment and the increasing threat of climate change necessitate the introduction of efficient and cost-effective technologies.

Furthermore, in accordance with the revised construction law in 2009 the duty of buildings certification (energy passports) entered into force. 2009/91/EC Directives of the European Parliament and the Council of 16 December 2002 on the energy performance of buildings requires EU Member States to actively promote the improvement of the energy standard of buildings within the Community.





Therefore, our proposals go far towards improving the heat transfer coefficient of the building – triple glazing sun protection panes Effector Therm Effect consist of two panes with insulating coating, and the space between panes filled with argon, which allows for the perfect balance between the lowest U coefficients of values up to 0,6 [W / (m² K)] and energy transmittance (g = 50) and the highest transparency (71% of light transmission) and that is in neutral colors (Ra = 95.7).

This type panes are used in locations where it is particularly important to achieve the lowest possible heat transfer coefficient, especially in passive houses.

ADVANTAGES of heat protection panes Effector Therm Effect:

BETTER COMFORT:

- lowering effect of the cold pane,
- reduction of condensation of water vapor (balancing the pane temperature with the temperature inside the room, avoiding the risk of retting glass),
- very good transparency and neutral colors

ENERGY SAVING + ENVIRONMENTAL PROTECTION:

- lower heating cost,
- natural environment protection by reducing carbon dioxide emissions into the atmosphere.

UNIVERSALITY:

Heat protection panes Effector Therm Effect operate both in the summer, reducing heating of the room, and in winter, reducing heat loss from the room. By reducing ultraviolet radiation penetrating into the room, we protect our health and slows down the fading of furniture, carpets and curtains.



Technical data:

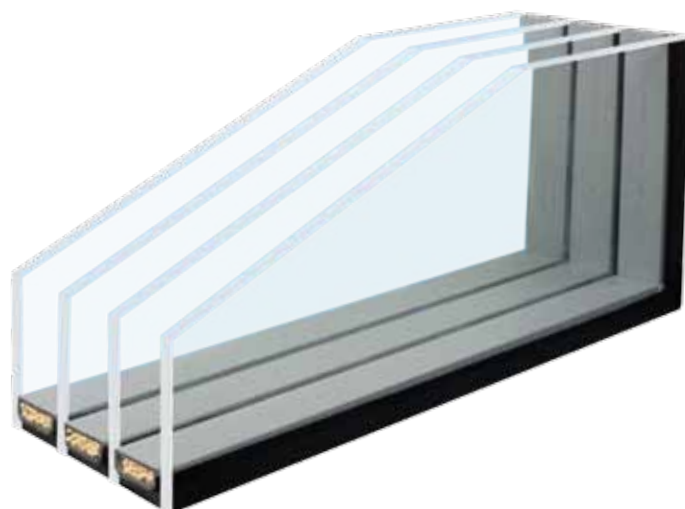
Glazing construction	Gas	Solar Energy Permeability g [%]	Light permeability TI [%]	Light reflection RI [%]	Heat transparency coefficient U [W/m²K]
4/16/4LE	Air	62	80	12	1,4
4/16/4LE	Argon	63	80	12	1,1
4/16/4GLE	Argon	50	71	22	1,0
4/10/4LE	Krypton	63	80	12	1,0
4LE/10/4/10/4LE	Krypton	50	71	15	0,6
4LE/16/4/16/4LE	Argon	50	71	15	0,6
4GLE/16/4/16/4GLE	Argon	37	57	32	0,5

EFFECTOR THERM EFFECT – FOURFOLD GLAZING UNITS

In order to meet the expectations of contemporary times and building technology we introduced fourfold glazing units – reaching a U-coefficient of 0.4 [W / (m² K)]. This is due to an additional chamber in glazing and in order to achieve this parameter we produce glass units with a total width of 58 mm, with the necessity of hardening of some glass units.

Hardening process is made in technology with an air bag, rather than traditional ceramic rollers, thus eliminating the distortion of glass after heat treatment. Improvement of parameters increases the weight of the glass up to 40 kg / m². Light transmittance Lt coefficient is also changed, which has worsened by about 8% compared to panes using standard low-emission coatings.

Panes of this type are used in windows produced for passive houses.





EFFECTOR
lamino effect

LAMINATED PANES:

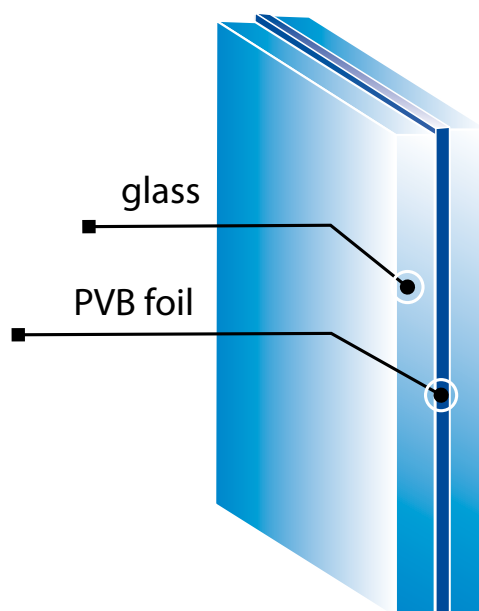




LAMINATED PANES:

Effector Lamino Effect laminated panes – panes which, depending on the construction, provide the various functions - protect against burglary, reduce the risk of injury from shattered glass in case of breakdown and the risk of falling out, and due to the fact that the standard pane, which provides a protective function, is thicker than the other pane in the set, and includes PVB foils having certain muffling properties, Effector Lamino Effect panes characterized with better protection parameters against noise. Furthermore, Lamino Effect filters most UV rays, which allows for maximum protection of all components exposed to sunlight.

In order to join Effector Lamino Effect panes the laminated glass is used (the norm PN-EN ISO 12543-1,2,3,4,5,6 „Compound glass and compound safety glass”), which consists of two or more sheets combined with each other with one or more PVB foil (poly-vinyl-butylal). This process takes place in an autoclave at about 115 ° C and pressure of about 10 at. Earlier during sheet preparation for gluing it is necessary to pump out the air from the space between panes where PVB foil is already put.



Laminated glass characteristics:

- in case of glass breakage, PVB foil or foils stop fragments of glass in place,
- varying the number and thickness of each layer, laminated glass with different physical properties is obtained,
- PVB foil can be colorless, milky or colored in some cases, it is also possible to laminate printings or graphics between panes.



Effector Lamino Effect panes functions:

RISK REDUCTION AND PROTECTION AGAINST VANDALISM



depending on the construction of laminated pane included in Effector Lamino Effect glazing has appropriate security class, which is defined by the norm PN-EN 356 by determining the endurance test that pane has to go through to gain the class. The test is carried out one or more times hitting a steel ball (3 - fold) weighing 4.11 kg falling freely from a specified height (1.5 m to 9 m) on the tested glass (1100 x 900 mm) placed horizontally. The combined hit points form an equilateral triangle with 13 cm sides. Height of drop varies depending on the class of glass. Even after the third hit ball should not break the glass.

CLASS	TESTS	RESULT
P1A	3 ball hits in triangle - 1,5 m height	not broken
P2A	3 ball hits in triangle - 3 m height	not broken
P3A	3 ball hits in triangle - 6 m height	not broken
P4A	3 ball hits in triangle - 9 m height	not broken
P5A	3x3 ball hits in triangle - 9 m height	not broken

P5 Class – is the same test as for classes P1 to P4, repeated three times from height of 9 m. Even after the ninth ball hit glass should not be broken.

P6 to P8 Classes - sample glass vertically positioned copes with the impact of mechanism with appropriate weight equipped with an ax and a hammer to create a hole of 40 x 40 cm, commonly accepted as allowing the passage of man. Number of hits needed to complete the hole determines the class of safety glass.

CLASS	TESTS	RESULT
P6A	ax and hammer, from 30 to 50 hits	Hole 40 x 40 cm not created
P7A	ax and hammer, from 51 to 70 hits	Hole 40 x 40 cm not created
P8A	ax and hammer, above 71 hits	Hole 40 x 40 cm not created



LAMINATED PANES:

Through the use of Effector Lamino Effect panes safety of flat, goods and people in it can be ensured, such glazing installation is really able to delay action and thereby discourage aggressors. In the case of attempted theft or burglary, glazing leaves enough time for an intervention or an alarm activation. It also allows to avoid the necessity to draw blinds for a short time away. It reduces the risk of injury in case of accidental hit.

PROTECTION AGAINST INJURIES



in case of accidental breakage laminated glass in Effector Lamino Effect pane guarantees support of glass wall in place and coherence of its elements, in order to avoid risk of injury, especially in the case of fall. The use of this protection is often obligatory (public bodies, schools, kindergartens, motor vehicles), it is also justified in residential buildings in order to ensure the safety of residents.

PROTECTION FROM OBJECTS FALLING ON ROOFTOPS AND GLASS WALLS



in contemporary architecture more and more importance is attached to a glass roof that allows for optical facilities enlargement, better use of sunlight, increasing comfort and aesthetic values of interior design. Veranda would be an example here, a place where you can safely enjoy the sun, not being exposed to the wind and cold. Roof glass must therefore comply with the requirements concerning safety, thermal insulation and sun protection. If an object falls on the glass roof, glass stops it and does not allow glass elements falling on people.

PROTECTING PEOPLE FROM FALLING OUT



due to its size, methods of installation, supporting elements, strictly conforming to the requirements and applicable regulations, the glass ensures structural stability in case of breakdown and stop the pressure forces on the glass element. Glass can be used to produce elements under window, protective rails and glass walls.



EFFECTOR
relax effect

SOUNDPROOF PANES





While living in a noisy city it is worth investing in protection against noise. Soundproof panes Effector relax Effect in the windows are one way of coping with the tumult of the streets, the sounds of trains, cars, airplanes, playing children, etc.

Acoustic properties of the window, its ability to reduce noise, have a significant impact on the development of appropriate and comfortable environment for occupants of the building data. An important element in the improvement of sound insulation is the appropriate choice of window glazing. The measure of acoustic glazing is R_w weighted sound reduction index. It is determined with research in acoustical laboratories accredited in accordance with the applicable standards for determining the noise reduction of various spectral bands from 100 to 3150 Hz. Glazing used in construction can achieve the sound insulation $R_w > 50\text{dB}$.

This effect can be achieved in several ways:

- use of at least one glass tile with high density surface (e.g. glass 6 mm or thicker) - generally the larger total thickness of glass in glazing, the better the acoustic insulation is respectively,
- glass sheets of varying elasticity - properties of sound tumult laminated glass (safety) is used here,
- variety of glass thickness, the effect of tumult improving is obtained when the two glass sheets differs from thicknesses of at least 50% (e.g. 4 mm float glass + 6 mm float glass). It is thus possible to obtain improved tumult of 2-5 dB. It is one of the cheapest ways to improve the acoustic properties of glazing,
- hard gas as fillment of space between panes.

Filling space between panes with argon does not affect the acoustic properties of the pane. Installation way of pane does not change the sound insulation, for example, in set 44.4/16/4 laminated (burglary) glass can be installed either as an external or an internal one.



Examples of soundproof panes Effector Relax Effect offered by Effect Glass:

Glazing construction (panes filled with argon)	Insulation index Rw=dB	Glazing thickness mm
4/16/4/16/4	34	44
6/14/4	35	24
8/12/4	36	24
8/16/4	37	28
VSG 33.1/16/4	37	26
VSG 44.2/16/4	38	28
VSG-SI 44.1/16/4	39	28
VSG 44.2/16/6	40	30
VSG 44.2/20/6	41	34
VSG-SI 44.1/12/8	42	28
VSG-SI 44.1/16/8	43	32
VSG-SI 44.1/12/10	44	30
VSG-SI 44.1/16/10	45	34
VSG-SI 44.1/24/10	47	42





Examples of triple glazing soundproof panes Effector Relax Effect offered by Effect Glass:

Glazing construction	Insulation index Rw=dB	Glazing thickness mm	Heat transfer coefficient Ug
6/12/4/12/4	36	38	0,7
44.2/12/4/12/4	37	41	0,7
8/12/4/12/6	39	42	0,7
8/12/4/12/44.1 silance	45	44	0,7
44.1silance/12/4/12/44.1silance	47	44	0,7
44.2/18/4/16/6	42	53	0,5
44.2/18/4/16/44.1	42	55	0,5
44.1silance /14/4/14/6	42	46	0,6

Soundproof panes Effector relax Effect can be used in all types of woodwork. The use of specific pane is dependent on the nature of the noise to be muffled. Some pane is used for example to muffle slow-moving train sounds, another pane is used to muffle traffic sounds, and yet another to glass facade and the windows of buildings or houses located in areas of high noise intensity (shopping streets, highways, neighborhood stations, airports, etc.) and especially threatened with vandalism.





EFFECTOR
SUN effect

SOLAR PANES

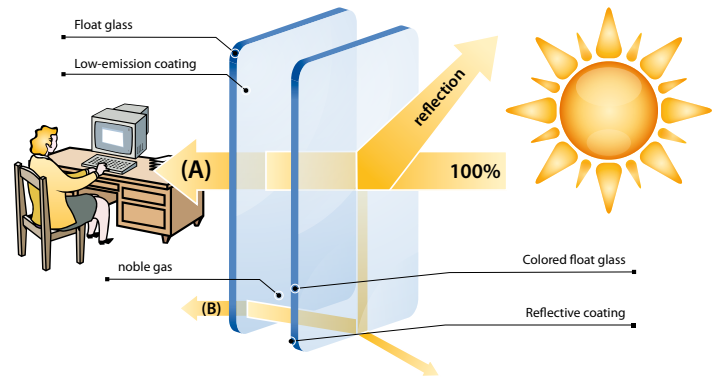
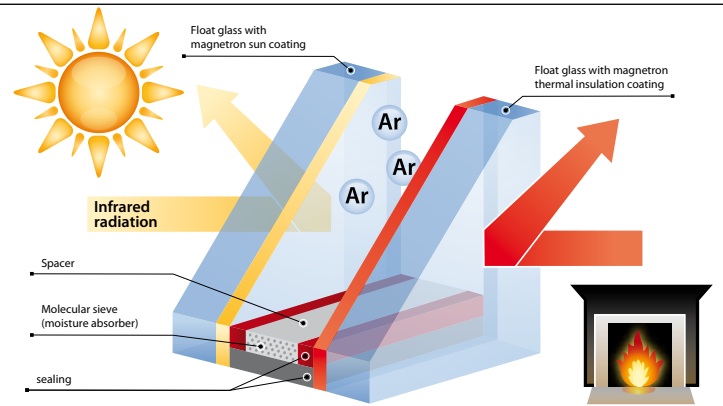




Application

Building designers have been searching for new material to perform the facade for many years, and in contemporary architecture glass is applied on a large scale. Houses, offices, public buildings are filled with light, but high degree of transparency of glass can lead to rooms overheating and high permeability of UV rays.

In order to prevent this architects need modern solutions for glazing installed in facades, and a response to these demands are Sun panes Effector Sun Effect. In panes there is glass produced in the process of deposition of metal layers or metal oxides, which allows for ultra-thin coating giving a uniform appearance and the highest optical quality.



$$\text{SOLAR FACTOR} = A+B$$

Due to the design, manufacturing process and impact on the reduction of radiation protection, sun glass is divided into three groups: absorption, reflection and selective.

Sun panes with absorption glass:

It is the basic solution used in sun panes. Absorption glass is colored in the mass during the melting process in the glassworks. The color of blue, brown, charcoal and green causes strong absorption of the relevant part of the spectrum. Through the phenomenon of absorption such glass becomes very hot by absorbing about 50% of solar energy and then dissipates energy, again directing it outside. For this reason it is used as the outer pane in glazing. Low degree of light reflection, a bit less than clear float glass, is typical of it. Depending on the needs for achieving the desired energy balance for the entire glazing both the color and thickness of the glass are chosen appropriately, because the effect of absorption panes increases with increasing thickness of the glass.



Sun panes with reflective glass:

Glass with a reflective coating (Reflex) used in sun panes is a more advanced solution. Reflective coating is applied on the glass during production process. Its task is to reflect both visible light and solar heat. The use of reflective glass of different colors, in addition to shape the energy balance, is often used to improve aesthetic values of the building or surrounding buildings (the effect of mirroring of the surrounding architecture in elevation).

Both types of sun glass can be almost freely combined with other types of glass units. The combination with low-emission glass or burglary glass in one glazing meet expectations of very wide range of end users and create multi-functional sets, effectively protecting against unwanted energy exchange at any time of year.

Sun panes with selective glass:

Sun panes Effector Sun Effect made of selective glass have recently become the most popular product, due to two times higher degree of thermal insulation. Once glass with a selective coating could be distinguished from clear glass due to blue shade. Currently, selective glass is colorless, so it can be identified with a special sensor responsive to metal oxides on the glass sheet. It may also be tinted in glass mass in blue, brown, gray and green. Multiple coating with metal oxides allows for proper reflect effect, control rooms and reduce sunlight penetration of solar energy, as well as provide high heat protection. Glazing chamber is selectively filled with argon, which improves the thermal insulation of about 20%



ADVANTAGES of sun panes Effector Sun Effect:

- variety of choices in terms of both architectural and technical use,
- lower operating costs, particularly in industrial buildings, by reducing costs associated with cooling,
- greater comfort in the room, and thus more comfortable temperature, even during the height of summer,
- sun panes stop 50 - 76% of solar energy, thanks to this excellent sun protection properties can be obtained.

Glazing – in a set of low emission glass	Construction [mm]	Heat transfer coefficient Ug [W/m²K]	Sun light [%]		Solar energy [%]			
		Argon	TL	RL	TE	AE	RE	g
Antelio green#1	6-16-6	1,1	47	30	24	48	25	29
Antelio green#2	6-16-6	1,1	47	21	24	59	14	30
Antisol green	6-16-6	1,1	63	10	31	60	9	38
Stopsol Classic green#1	6-16-6	1,1	27	35	14	57	29	18
Stopsol Classic green#2	6-16-6	1,1	27	20	14	73	13	20
Antisol brown	6-16-6	1,1	44	7	29	57	14	38
Stopsol Classic brown#1	6-16-6	1,1	19	34	15	52	33	20
Stopsol Classic brown#2	6-16-6	1,1	19	12	15	69	16	22
Antisol blue (Priva blue)	6-16-6	1,1	30	6	15	80	5	21
Stopsol Supersilver Dark Blue#1	6-16-6	1,1	35	35	20	52	28	25
Stopsol Supersilver Dark Blue#2	6-16-6	1,1	36	18	20	66	14	26
Antelio silver#1	6-16-6	1,1	59	33	40	13	39	48
Antelio silver#2	6-16-6	1,1	59	32	40	16	36	48
Antisol gray - charcoal	6-16-6	1,1	38	6	27	61	12	35
Stopsol Classic gray - charcoal#1	6-16-6	1,1	16	34	13	55	32	19
Stopsol Classic gray - charcoal#2	6-16-6	1,1	16	10	14	72	14	20
Antelio clear#1	6-16-6	1,1	40	33	30	26	38	36
Antelio clear#2	6-16-6	1,1	41	27	30	31	32	37
Stopsol Supersilver clear#1	6-16-6	1,1	55	37	37	21	42	45
Stopsol Supersilver clear#2	6-16-6	1,1	55	37	38	22	40	45

* It is recommended to use solar glazing with reflective coating inside glazing (item # 2). Glazing with reflective coating outside glazing (item # 1) can cause the degradation under the influence of adverse weather conditions and pollution from the air.

Abbreviations definition:

TL - Light transmission

RL - Light reflection

TE - Thermal energy transmission

RE - Thermal energy reflection

AE - Thermal energy absorption

g - Thermal energy total transmission



EFFECTOR
beauty effect

DECORATIVE PANES





Ornamental glass used in the decorative panes Effector beauty Effect is a glass of reduced transparency resulting from the scattering of light rays on the patterned surface. It has wide application because of its functionality and decorative characteristics in residential and industrial constructions such as glass partitions and doors in various public places as well as in insulation sets. A wide range of designs and colors allows architects and users to feel free in space formation both in residential and industrial constructions. Ornamental glass is produced by continuous rolling, one of the rollers has a pattern which is then embossed on the glass surface. The effect of partial disguise or darkening is obtained by using the glass can be achieved by staining of glass mass in a brown color, or by selecting more or less discrete pattern. The light reaching the ornamental glass is partly reflected and partly dispersed, and it determines the shape and size of ornament pattern. The interrelationship between these two phenomena affect the observed degree of flicker and blackouts. Ornamental glass usually transmits only slightly less light than clear glass.

Advantages:

- The possibility of obtaining a variety of lighting effects and varying degrees of shade.
- Five levels of privacy defined from 1 (least covering) to 5 (most covering).
- Wide range of offered designs.
- Unique decorative values.



Kathedral



Master Point



White Sand Delta



White Chinchila



Brown Chinchila



Crepi



Atlantic



Colourless Altdeutsch



Master Ray



Master Lens



Master Ligne



Master Carre



Brown Kora



White Kora



White Niagara



White Kura



Decormat



Sand Flutes



EFFECTOR special effect



SPECIAL GLASS

Effect Glass Company has also in its offer glazing units in combinations with a special glass in order to meet customers' requirements.

The special glass offer includes:

- Chilled glass,
- Bullet-proof glass,
- Fire-resistant glass (E, EI classes),
- Enamel glass,
- Glass with holes and notches,
- Decorative glass with screen printing,
- Curved glass.





EFFECTOR
decor effect

ACCESSORIES FOR EFFECTOR GLAZING:

Spacers between panes

are an essential element in the production of glazing combines the inner and outer panes. Glass Effect offers the following types:

- aluminum spacer with thickness 6 – 24 mm,
- galvanized steel spacer with thickness 10 - 18 mm,
- stainless steel spacer with thickness 10 – 16 mm,
- plastic spacer SWISSPACER with thickness 8 - 18 mm,
- spacers painted in any RAL colour – available on client's request.

* Standard spacer thickness: 10 mm, 12 mm, 14 mm, 16 mm, 18 mm.

* Non-standard spacer thickness: 6 mm, 8 mm, 20 mm, 22 mm, 24 mm.

The use of low-emission glass and filling space between panes with noble gas will increase the thermal insulation glazing, but the edges are separated and combined with materials of much higher thermal conductivity. This creates a thermal bridge that allows the flow of energy from warm internal pane to cold external pane, which may result in condensation of water vapor on the glass surface, especially in areas with very high humidity. In order to solve this problem one started searching for new technologies and new materials that help to get spacer with a reduced thermal conductivity. In this way, one obtained a new solution generally called „swisspacer“.

In contrast to the commonly used metal spacers, swisspacer can be made of high quality organic materials, thermally optimized, reinforced with glass fiber, taped on the outer side with an extremely thin foil of stainless steel or aluminum. Foil provides good adhesion of sealants fixing glazing, and thus provides a hermetical sealant against gas filling space between panes, as well as water vapor. This ensures that basic function of modern windows - thermal insulation.



ACCESSORIES FOR EFFECTOR GLAZING:

Bar between panes

Bar between panes is a popular method of decorating windows by dividing the surface of the glass into smaller fields. Effect Glass offer includes profiles of various widths, in a wide range of RAL colors, veneered with similar wood foil and „Vienna“ bars - imitating the spacer.



Lead 8 mm



Old gold 8 mm



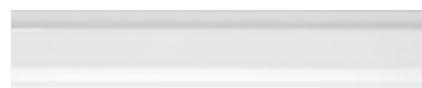
Gold 8 mm



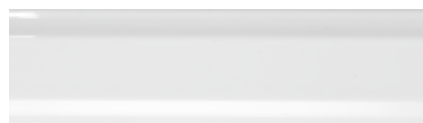
Gold 18 mm



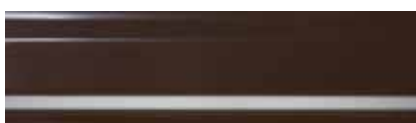
White 8 mm



White 18 mm E



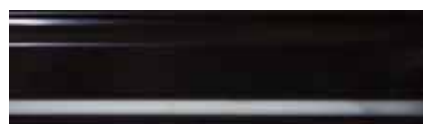
White 26 mm E



RAL 8014



RAL 8017



RAL 8022



Light oak



Gold oak



Gold oak / White



Medium oak



Swamp oak



Mahogany



REN. 2178001 18 mm



REN. 2178007 18 mm



REN. 3162002 18 mm



REN. 2052089 18 mm



White / REN. 2052090 18 mm



Biały / REN. 2178001 26 mm



Biały / REN. 2178007 26 mm



DUPLEX 24



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