



## Product overview



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Company

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Solar control glass (triple glazing)

## Company



For more than 35 years arcon has been offering a very wide range of highly effective magnetron coatings on all types of glass substrates. The range includes high-end products used for coated architectural glass such as high-performance low-E coatings, solar control coatings and other special coatings.

As part of the company group Arnold Glas, arcon not only offers its own technical expertise but can exploit synergies to benefit its customers and provide end-to-end solutions. Two production sites in Germany – Bucha and Feuchtwangen – provide additional flexibility for the development of customised solutions in glass.



## Low-E glass



Low-E glass by arcon offers impressive thermal insulation as well as optimised lighting characteristics.

High light transmission values ensure a high proportion of natural light in the building. At the same time, our insulating glass saves heating costs due to high solar gain.

	visible light			solar energy			g-value %	shading coefficient %	colour rendering index R <sub>a</sub>	U <sub>g</sub> -value W/(m <sup>2</sup> K)
	trans- mission %	reflectance outside %	reflectance inside %	trans- mission %	reflectance outside %	absorbance %				
<b>Double glazing (4/16/:4 – 90% Ar)</b>										
N34/N34 HT	82	12	12	57	26	17	64	74	98	1.1
N10/N10 HT	70	22	24	43	39	18	50	57	97	1.0
<b>Triple glazing (4:/14/4/14/:4 – 90% Ar)</b>										
N34/N34 HT	74	14	14	45	31	24	53	60	96	0.6
<b>Triple glazing (4:/12/4/12/:4 – 90% Kr)</b>										
N34/N34 HT	74	14	14	45	31	24	53	60	96	0.5

## decochrome oHT



The innovative solution for decorative facades and interior glazing. The front surface mirror from arcon can be applied to float glass, single-pane safety glass and laminated safety glass.

## decochrome design



Absolute freedom and flexibility of design. arcon decochrome design can be applied partially to a carrier material (float glass, single-pane safety glass and laminated glass) according to your preferences and decorative ideas.

## decolite



arcon decolite spandrel glass is coated and/or enameled monolithic toughened safety glass. arcon decolite is heat-soak tested and meets the requirements of ETAG (European Technical Approval Guideline) in respect of the Structural Glazing adhesive Dow Corning 993.

### decochrome oHT

	light transmission in %	reflectance outside in %
single pane 6 and 8 mm*	5	61

\* The data refers to full-surface coatings with arcon decochrome oHT. Data for other glass thicknesses and for laminated safety glass available on request.

### decolite

coating	decolite A	decolite 600	decolite 700
sunbelt A70/A60/A50/A40	*		
sunbelt E70/N34		*	
sunbelt silber / sunbelt D oHT			on demand

The spandrels which are dedicated to the different sunbelt types always have only an approximate match in terms of colour. The customer has to decide if this match is sufficient. In either case we recommend a sampling inspection.

## Solar control glass (single and double glazing)



**arcon sunlite A** is a highly transparent, effective solar control glass for monolithic applications. In the classic example of curtain wall with underlying thermal insulation double glazing, arcon sunlite A enables previously unmatched values in selectivity to be achieved.

### arcon sunlite A

composition	light transmission	reflectance outside	solar energy transmission	g-value
laminated sunlite A 66.2*	76%	6%	37%	49%

\* other thicknesses on demand

	visible light			solar energy			solar factor (SF)	shading coefficient %	colour rendering index $R_a$	$U_g$ -value $W/(m^2K)$
	transmission %	reflectance outside %	reflectance inside %	transmission %	reflectance outside %	absorbance %				
<b>Double glazing (6:/16/4 – 90% Ar)</b>										
sunbelt A70/A70 HT	70	13	13	35	33	32	37	43	96	1.0
sunbelt A60/A60 HT	61	14	12	31	32	37	33	38	96	1.0
sunbelt A50/A50 HT	53	18	12	26	31	43	28	32	94	1.0
sunbelt A40/A40 HT	43	22	11	21	31	48	23	27	91	1.0
sunbelt D70 oHT	68	21	19	43	31	24	46	53	97	1.1
sunbelt D60 oHT	58	28	20	37	35	26	40	46	97	1.1
sunbelt D50 oHT	50	30	21	30	37	34	33	37	95	1.1
sunbelt D40 oHT	40	36	15	25	38	36	28	32	94	1.1
sunbelt E70	70	12	13	36	32	32	39	45	96	1.0
sunbelt silber 40/21	40	33	19	19	46	35	21	24	94	1.0
sunbelt gold 29/28	29	36	51	24	37	39	28	32	91	1.2

## Solar control glass (triple glazing)



Modern solar control is colour-coordinated. With the **arcon A-series**, four solar control coatings are colour-matched in such a way that they can be combined in one building – despite different values in light transmission and energy transmission.

**sunbelt D50 oHT** (optional heat treatable) is the new product family of arcon. It can be processed as non-toughened float glass or as tempered/heat-strengthened safety glass.

**arcon sunbelt E70** is the economic solution for your facade. It ensures effective solar control in summer and good heat insulation in winter. With sunbelt E70 you get an extremely neutral solar control glass with low reflectance.

As highly reflective project-specific coatings, **arcon sunbelt silver and sunbelt gold** offer a luminous look and reflectance.

	visible light			solar energy			solar factor (SF)	shading coefficient %	colour rendering index $R_a$	$U_g$ -value $W/(m^2K)$
	transmission %	reflectance outside %	reflectance inside %	transmission %	reflectance outside %	absorbance %				
<b>Triple glazing (6:/14/4/14/:4 – 90% Ar – arcon N34 on surface 5)</b>										
sunbelt A70/A70 HT	63	15	16	30	34	36	34	39	94	0.6
sunbelt A60/A60 HT	56	16	14	27	33	40	30	35	94	0.6
sunbelt A50/A50 HT	48	19	15	22	32	45	26	29	92	0.6
sunbelt A40/A40 HT	39	23	14	18	31	51	21	24	90	0.6
sunbelt D70 oHT	62	23	20	35	33	25	41	47	96	0.6
sunbelt D60 oHT	53	29	21	30	37	27	35	40	96	0.6
sunbelt D50 oHT	45	31	22	25	38	38	29	33	94	0.6
sunbelt D40 oHT	36	36	17	20	38	37	24	28	93	0.6
sunbelt E70	64	14	16	31	33	36	36	41	94	0.6
sunbelt silver 40/21	36	33	20	17	46	38	19	22	93	0.6
sunbelt gold 29/28	26	36	47	18	38	44	22	26	91	0.7

All technical values to EN 410 and EN 673 ( $\Delta T = 15 K$ ), manufacturing tolerances to EN 1096. arcon reserves the right to change product performance characteristics without notice and without obligation. July 2018

## Online calculation of photometric data of insulating glass units

The programme provided by arcon on its website allows you to quickly calculate the photometric and radiometric data of insulating glass units from the comfort of your own workplace. The easy-to-read results can then be saved as a PDF, archived, printed out or sent to your customers by email.

► Calculate photometric data online at [www.arcon-glas.de/en](http://www.arcon-glas.de/en)

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