VISION PANELS

CLIPS WINDOW ASSEMBLIES
STANDARD PROFILE 36, 40, 60, 80 & 100 MM

Applications

The REMAT Clips Window Assemblies are used in controlled environments.

Specifications

The assembly is built up of 2 parts:
the FRAME and the GLAZING

The frame
Depending on the frame profile used, a REMAT Clips Window Assembly can be produced for different wall thickness'.

Standard profile 36, 40, 60, 80 & 100 mm
The powder coated profile is manufactured from extruded aluminum. This profile has on one side an additional 12 mm lip which, when assembled, forms on one side the external frame and thus simplifies the installation in the partitioning.
All profiles are coated and then cut to length using a computerized saw for a perfect mitred corner joint. Hygroscopic crystals are placed in the cavity of the bottom profile, before the profiles are wedged and glued together on a calibrated surface, forming a frame with perfect angles and thus preventing internal condensation.

Special designed frame
For special projects we develop and design custom made frames which match the customers' specific needs or customized specifications.

The glazing
The glazing is installed on both sides of the frame. Standard REMAT Clips Window Assemblies are provided with laminated glass.

Final Assembly
In order to keep the inside of the finished window assembly as dust free as possible, all operations are executed in a controlled environment, including the addition of the hygroscopic crystals in the frame.

Options
- Tempered glazing
- Stores / Blinds
- Stainless steel
- Film (Protective , U.V., ...)

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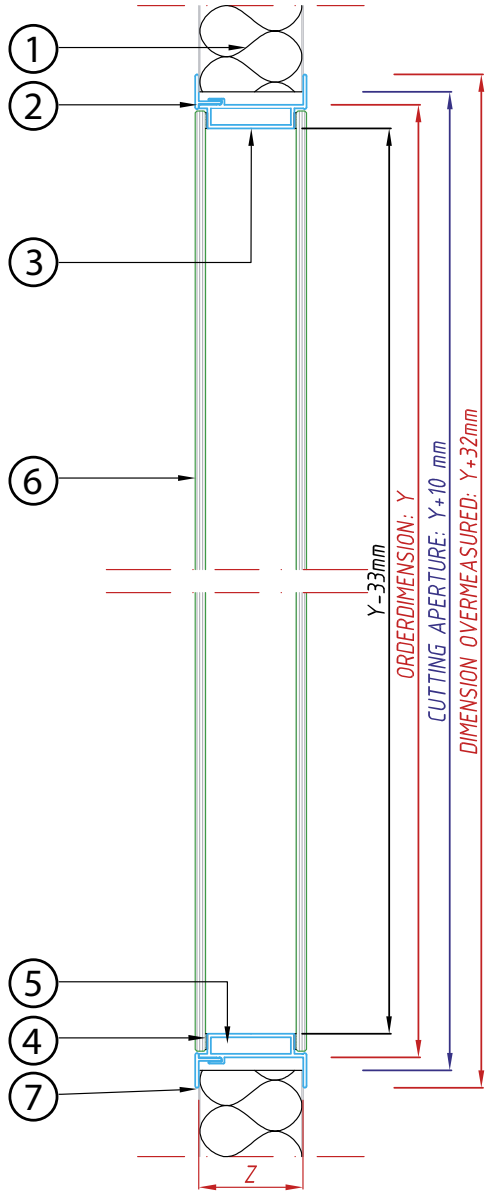
CLIPS WINDOW ASSEMBLIES
STANDARD PROFILE 36, 40, 60, 80 & 100 MM



Remark: All dimensions, exept order sizes, as well as the profile can be modified without prior advice.

Legend

Dimensions

All dimensions are mentioned in millimetre (mm)

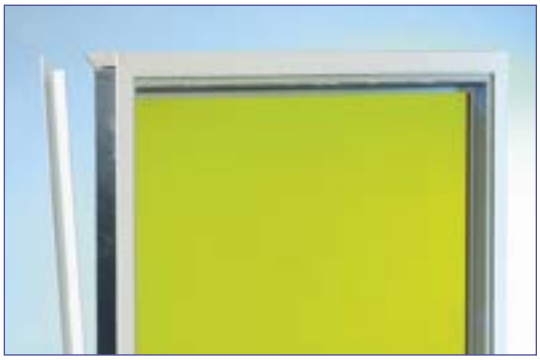
Order sizes:
X: Width
Y: Height
Z: Thickness of partition

Requested cut-out in partition:
X + 10 mm: Width
Y + 10 mm: Height

Overall dimensions:
X + 32 mm: Width
Y + 32 mm: Height
Z + 4 mm: Thickness

Materials

1 Partition
2 Laquered aluminium clips profile
3 Aluminium base profile
4 Doublesided tape
5 Hygroscopic cristals
6 Laminated glass
7 Silicone seal



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VISION PANELS

CLIPS WINDOW ASSEMBLIES
PROFILE WITH ADAPTED THICKNESS

Applications

The REMAT Clips Window Assemblies are used in controlled environments.

Specifications

The assembly is built up of 2 parts:
the FRAME and the GLAZING

The frame
Depending on the frame profile used, a REMAT Clips Window Assembly can be produced for different wall thickness'.

Profile with adapted thickness
The frame comprises 2 outer aluminum profiles and a middle section with an adaptable width, this being dependant on the wall thickness in which the window assembly is to be installed.
All profiles are coated and then cut to length using a computerized saw for a perfect mitred corner joint.
Hygroscopic crystals are placed in the cavity of the bottom profile, before the profiles are wedged and glued together on a calibrated surface, forming a frame with perfect angles and thus preventing internal condensation.

Special designed frame
For special projects we develop and design custom made frames which match the customers' specific needs or customized specifications.

The glazing
The glazing is installed on both sides of the frame. Standard REMAT Clips Window Assemblies are provided with laminated glass.

Final Assembly
In order to keep the inside of the finished window assembly as dust free as possible, all operations are executed in a controlled environment, including the addition of the hygroscopic crystals in the frame.

Options
- Tempered glazing
- Stores / Blinds
- Stainless steel
- Film (Protective , U.V., ...)

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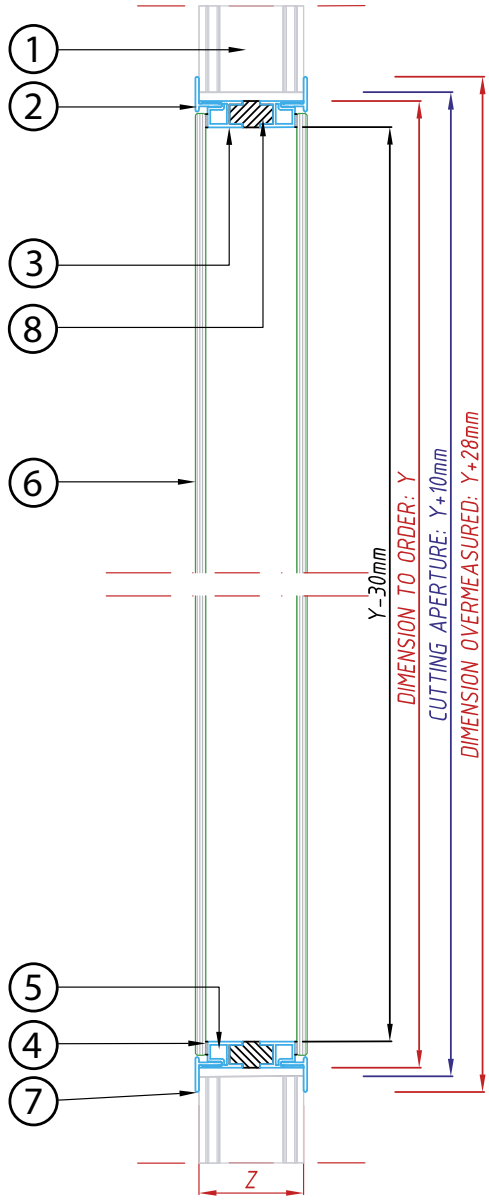
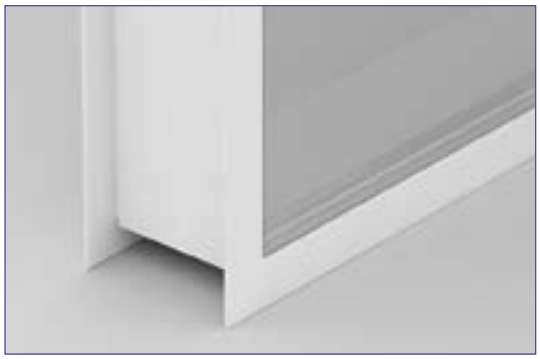
CLIPS WINDOW ASSEMBLIES
PROFILE WITH ADAPTED THICKNESS



Remark: All dimensions, exept order sizes, as well as the profile can be modified without prior advice.



Legend

Dimensions

All dimensions are mentioned in millimetre (mm)

Order sizes:
X: Width
Y: Height
Z: Thickness of partition

Requested cut-out in partition:
X + 10 mm: Width
Y + 10 mm: Height

Overall dimensions:
X + 28 mm: Width
Y + 28 mm: Height
Z + 4 mm: Thickness

Materials

1 Partition
2 Laquered aluminium clips profile
3 Aluminium base profile
4 Doublesided tape
5 Hygroscopic cristals
6 Laminated glass
7 Silicone seal
8 Intersection

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VISION PANELS

FLUSH WINDOW ASSEMBLIES
STANDARD PROFILE 40, 60 & 80 MM

Applications

The REMAT Flush Window Assemblies are used in controlled environments.

Specifications

The assembly is built up of 2 parts:
the FRAME and the GLAZING

The frame
Depending on the frame profile used, a REMAT Flush Window Assembly can be produced for different wall thickness.

Standard profile 40, 60 & 80 mm
The powder coated profiles are manufactured from an extruded aluminum section. These profiles are cut to length using a computerized saw for a perfect mitred corner joint. Hygroscopic crystals are placed in the cavity of the bottom profile, before the profiles are wedged and glued together on a calibrated surface, forming a frame with perfect angles and thus preventing internal condensation.

Special designed frame
For special projects we develop and design custom made frames which match the customers' specific needs or customized specifications.

The glazing
The glazing is installed on both sides of the frame. Standard REMAT Flush Window Assemblies are provided with laminated glass.

Final Assembly
In order to keep the inside of the finished window assembly as dust free as possible, all operations are executed in a controlled environment, including the addition of the hygroscopic crystals in the frame.

Options
- Tempered glazing
- Stores / Blinds
- Stainless steel
- Film (Protective , U.V., ...)

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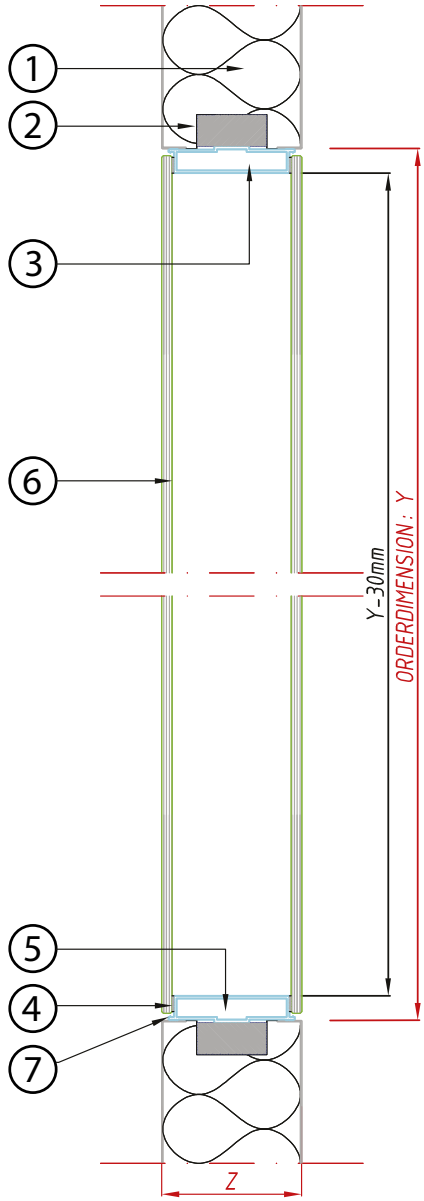
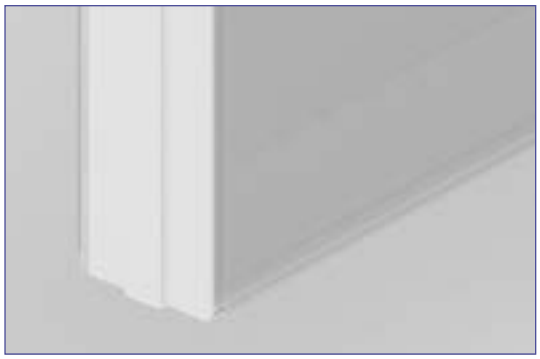
FLUSH WINDOW ASSEMBLIES
STANDARD PROFILE 40, 60 & 80 MM



Remark: All dimensions, exept order sizes, as well as the profile can be modified without prior advice.



Legend

Dimensions

All dimensions are mentioned in millimetre (mm)

Order sizes:
X: Width
Y: Height
Z: Thickness of partition

Requested cut-out in partition:
X + 3 mm: Width
Y + 3 mm: Height

Overall dimensions:
X + 0 mm: Width
Y + 0 mm: Height
Z + 0 mm: Thickness

Materials

1 Partition
2 PE Profile
3 Aluminium base profile
4 Doublesided tape
5 Hygroscopic cristals
6 Laminated glass
7 Silicone seal

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VISION PANELS

FLUSH WINDOW ASSEMBLIES
PROFILE WITH ADAPTED THICKNESS

Applications

The REMAT Flush Window Assemblies are used in controlled environments.

Specifications

The assembly is built up of 2 parts:
the FRAME and the GLAZING

The frame
Depending on the frame profile used, a REMAT Flush Window Assembly can be produced for different wall thickness.

Profile with adapted thickness
The frame comprises 2 outer aluminum profiles and a middle section with an adaptable width, this being dependant on the wall thickness in which the window assembly is to be installed. All profiles are coated and then cut to length using a computerized saw for a perfect mitred corner joint. Hygroscopic crystals are placed in the cavity of the bottom profile, before the profiles are wedged and glued together on a calibrated surface, forming a frame with perfect angles and thus preventing internal condensation.

Special designed frame
For special projects we develop and design custom made frames which match the customers' specific needs or customized specifications.

The glazing
The glazing is installed on both sides of the frame. Standard REMAT Flush Window Assemblies are provided with laminated glass.

Final Assembly
In order to keep the inside of the finished window assembly as dust free as possible, all operations are executed in a controlled environment, including the addition of the hygroscopic crystals in the frame.

Options
- Tempered glazing
- Stores / Blinds
- Stainless steel
- Film (Protective , U.V., ...)

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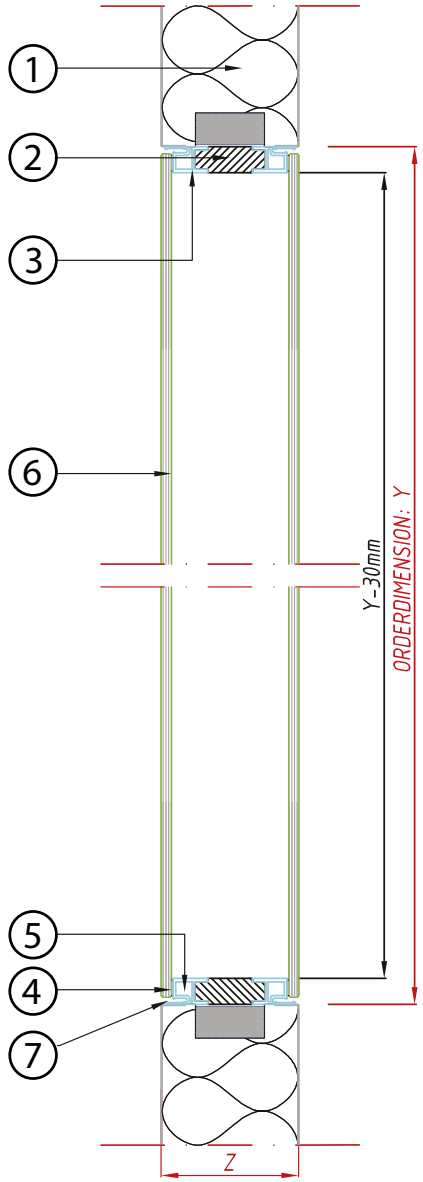
FLUSH WINDOW ASSEMBLIES
PROFILE WITH ADAPTED THICKNESS



Remark: All dimensions, exept order sizes, as well as the profile can be modified without prior advice.

Legend

Dimensions

All dimensions are mentioned in millimetre (mm)

Order sizes:
X: Width
Y: Height
Z: Thickness of partition

Requested cut-out in partition:
X + 3 mm: Width
Y + 3 mm: Height

Overall dimensions:
X + 0 mm: Width
Y + 0 mm: Height
Z + 0 mm: Thickness

Materials

1 Partition
2 Intersection
3 Aluminium base profile
4 Doublesided tape
5 Hygroscopic cristals
6 Laminated glass
7 Silicone seal

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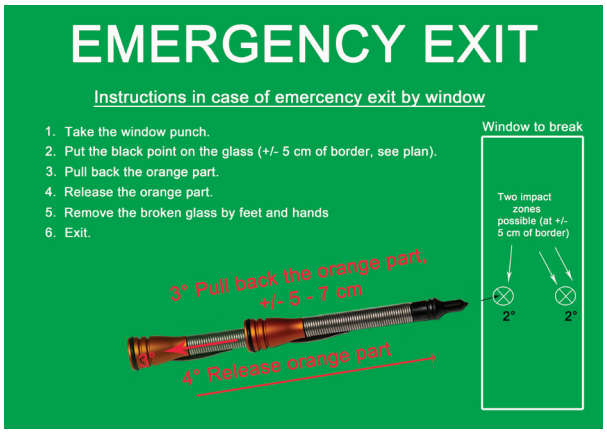
VISION PANELS

BREAK OUT PANEL



Applications

The BREAK OUT PANELS are used in controlled environments

Specifications

The assembly is built up of 2 parts:
the FRAME and the GLAZING

The frame
Depending on the frame profile used, a BREAK OUT PANEL can be produced for different wall thickness.

The powder coated profiles are manufactured from an extruded aluminium and/or PVC section. These profiles are cut to length using a computerized saw for a perfect mitred corner joint.

In case of a double glazing, hygroscopic crystals are placed in the cavity of the bottom profile before the profiles are wedged and glued together on a calibrated surface, forming a frame with perfect angles and thus preventing internal condensation.

Special designed frame
For special projects we develop and design custom made frames which match the customers' specific needs or customized specifications.

The glazing simple/double
Upon request, the breakoutpanel can be provided with 2 glasspanes.
Standard provided with tempered glazing.

Standard included:
Window Punch, fixing bracket and self adhesive label 'Emergency Exit'.

Options
- Stainless steel frame
- Sand blasted glazing
- Different breaking tool
- ...

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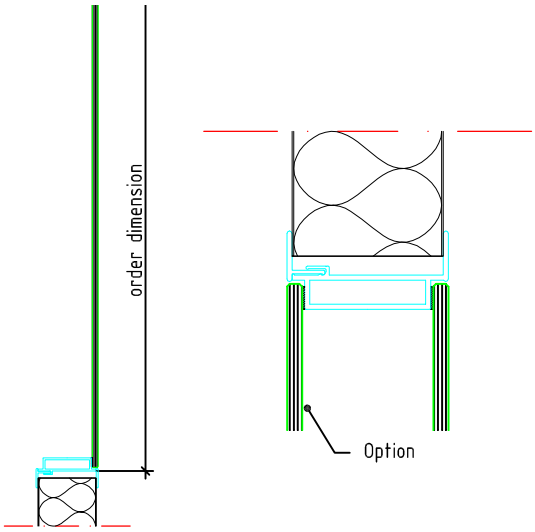
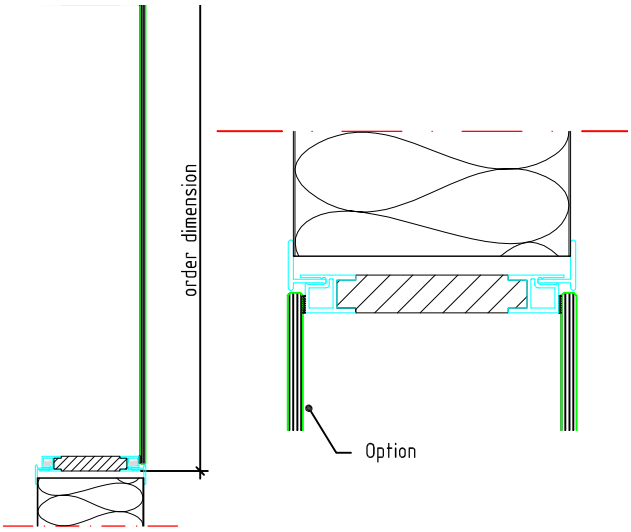
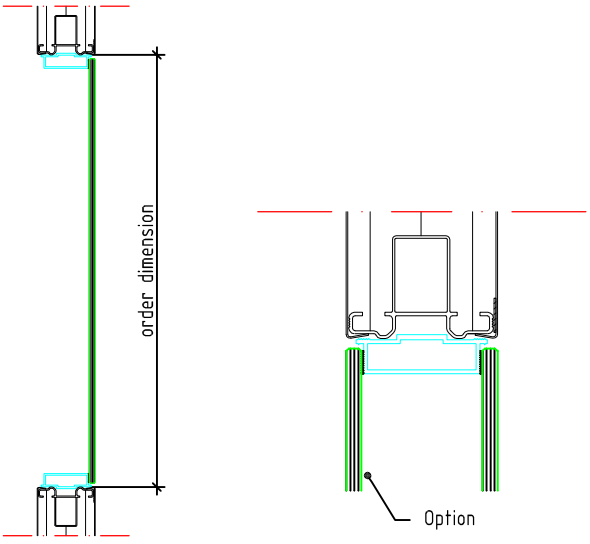
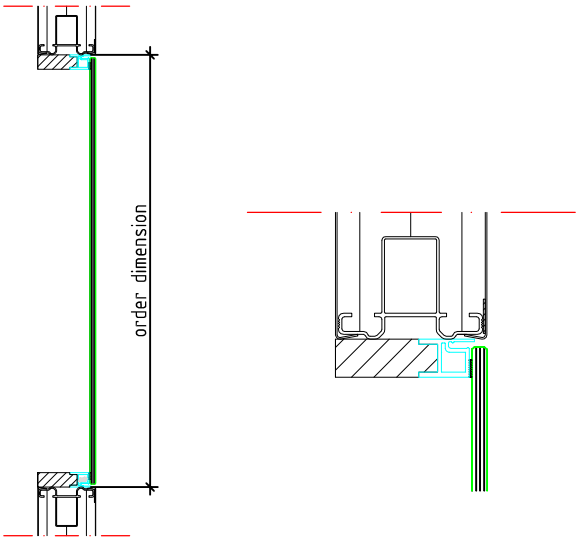




Vertical section
flush window 40/60/80mm

Vertical section
flush window adapted thickness





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Safety & Security Window Films

Armorcoat® 4 Mil Clear

Performance results

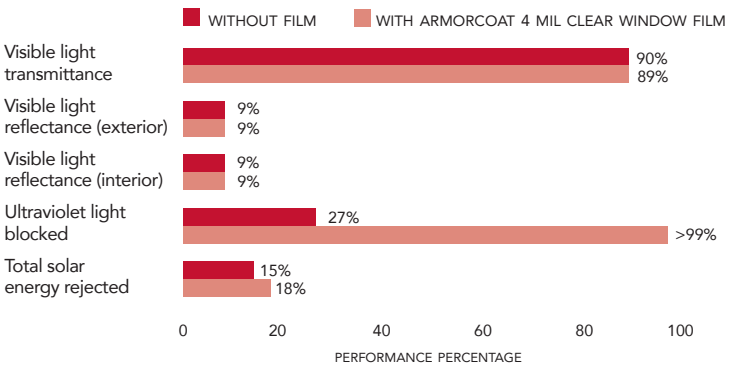
	4mm single	4mm double
Solar energy		
% Transmittance	77	64
% Absorptance	15	23
% Reflectance	8	13
Visible light		
% Transmittance	89	80
% Reflectance exterior	9	16
% Reflectance interior	9	16
Emissivity	.90	.90
Winter U-Factor (W/m²°C)	6.04	2.76
Shading coefficient	.94	.84
Solar heat gain coefficient	.82	.73
Solar selectivity index – luminous efficacy (VLT/SC)	.94	.95
Light to solar heat gain factor (VLT/SHGC)	1.09	1.10
% Ultraviolet light blocked (@ 300 to 380 nm)	>99	>99
% Total solar energy rejected	18	27
% Summer solar heat gain reduction	3	2
% Glare reduction	1	1

Physical properties nominal

Gauge	100 micron
Peel strength	985 g/cm
Tensile strength	2,110 kg/cm²
Break strength	22 kg/cm
ASTM D4830 puncture test	32 kg

Film performance

Performance results were generated from testing 4mm thick clear glass.



All performance results are based on the film installed on the inside surface of 4mm and 4mm+4mm thick, clear glass.

Notes

1. Solar Gard vis a participating member of AIMCAL (the Association of Industrial Metallizers, Coaters and Laminators), IWFA and EWFA. Performance results are calculated using NFRC methodology and LBNL Window 5.2 software, and are subject to variations within industry standards and only intended for estimating purposes.
2. These test data contain only results arrived at after employing specific test procedures and standards. The included data do not constitute a recommendation for, endorsement of, or certification of the product or material tested. These data are provided for informational purposes only and are not to be considered part of the basic representation or warranty, expressed or implied, including the implied warranties of merchantability or fitness for a particular purpose, that its products will conform to these test data. Solar Gard's limited warranty should be carefully reviewed prior to purchasing any Solar Gard product. Extrapolation of data from the sample or samples relation to the batch or lot from which data were obtained may not correlate and should be interpreted accordingly with caution. Solar Gard shall not be responsible for variations in quality, composition, appearance, performance, or other feature of similar subject matter produced by persons or under conditions over which Solar Gard has no control.
3. Performance results for summer solar heat gain reduction and glare reduction are calculated by comparing filmed glass to that of untreated glazing.

Armorcoat Safety & Security Films

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Solar Gard® Solar Control Window Films

Clear Frost

Performance results

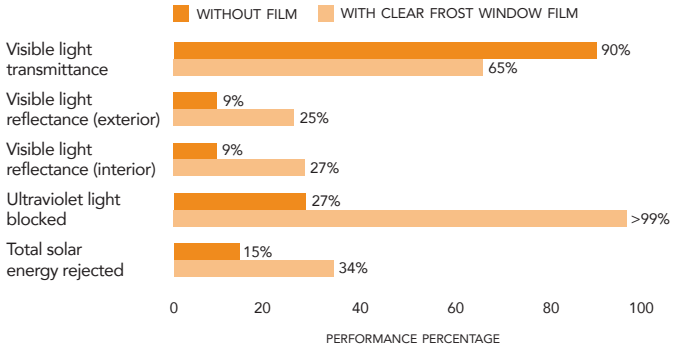
	4mm single	4mm double
Solar energy		
% Transmittance	60	50
% Absorptance	21	29
% Reflectance	19	21
Visible light		
% Transmittance	65	59
% Reflectance exterior	25	29
% Reflectance interior	27	30
Emissivity	.87	.87
Winter U-Factor (W/m²°C)	5.96	2.74
Shading coefficient	.76	.71
Solar heat gain coefficient	.66	.62
Solar selectivity index - luminous efficacy (VLT/SC)	.85	.83
Light to solar heat gain factor (VLT/SHGC)	.99	.96
% Ultraviolet light blocked (@ 300 to 380 nm)	>99	>99
% Total solar energy rejected	34	38
% Summer solar heat gain reduction	22	16
% Glare reduction	27	26

Physical properties nominal

Gauge	50 microns
Tensile strength	2,100 kg/cm²
Melting point	260 – 265°C

Film performance

Performance results were generated from testing 4mm thick clear glass.



All performance results are based on the film installed on the inside surface of 4mm and 4mm+4mm thick, clear glass.

Notes

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3. Performance results for summer solar heat gain reduction and glare reduction are calculated by comparing filmed glass to that of untreated glazing.

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Solar Gard® Solar Control Window Films

Black Opaque

Performance results

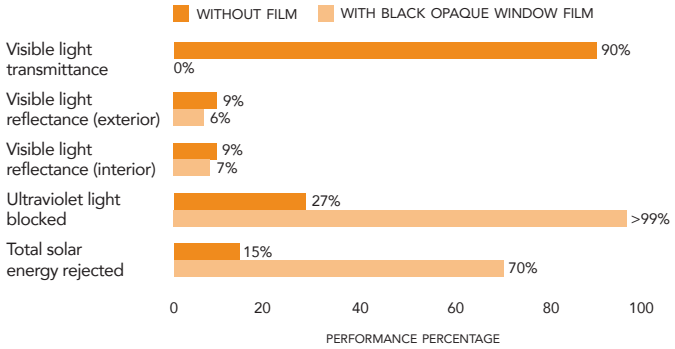
	4mm single	4mm double
Solar energy		
% Transmittance	0	0
% Absorptance	95	89
% Reflectance	5	11
Visible light		
% Transmittance	0	0
% Reflectance exterior	6	13
% Reflectance interior	7	7
Emissivity	.87	.87
Winter U-Factor (W/m²°C)	5.96	2.74
Shading coefficient	.35	.60
Solar heat gain coefficient	.30	.51
Solar selectivity index - luminous efficacy (VLT/SC)	.00	.00
Light to solar heat gain factor (VLT/SHGC)	.00	.00
% Ultraviolet light blocked (@ 300 to 380 nm)	>99	>99
% Total solar energy rejected	70	49
% Summer solar heat gain reduction	65	31
% Glare reduction	100	100

Physical properties nominal

Gauge	75 microns
Tensile strength	2,100 kg/cm²
Melting point	260 – 265°C

Film performance

Performance results were generated from testing 4mm thick clear glass.



All performance results are based on the film installed on the inside surface of 4mm and 4mm+4mm thick, clear glass.

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