

RAIL VEHICLES

Windscreens, windows, doors,
wipers, headlights, interiors.



BOHAMET®

RAIL

Love challenges

RAIL BOHAMET Sp. z o. o

Rail - Bohamet rapidly growing company producing windows and glazing for rail vehicles and public transport. The offer is complemented door, windscreen wipers, aluminum structures vehicle equipment, steel structures railway architecture, service. The company operates under obtained certificates and quality management systems. We are interested in continuous development and implementation of innovative solutions to meet customer needs. Our big advantage: we are the producer of the Glass as well as the steel products what give us a short production and delivery time of complete product. Advanced and modern machine park ensures high production capacity and independence of cooperation. In 2017 we delivered a side and curved windows and interior fittings to more than 50 rail vehicles. We love new challenges.

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WINDSCREEN GLASS



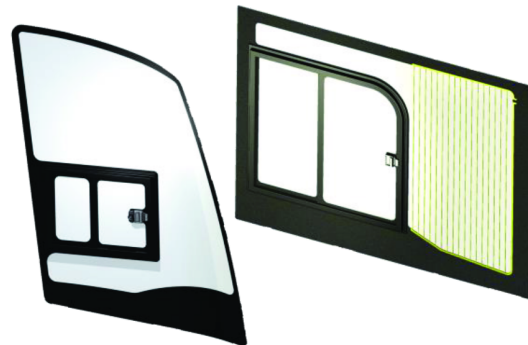
CHARACTERISTICS

Front laminated safety glass with the approval of the ECR 43, UIC 651, PN-EN 15152 to transport vehicles: trains, buses, trams, etc.

The window with display and electric heating function.

Glass painting	ceramic paint sieveprint		without print
Glass type	flat	laminated	curved
Bonding	acc. to DIN 6701-2		
Electroheated glass	24V, 400V acc. to projects demands		
Display	12V		

DRIVER CAB AND REAR WINDOW GLASS



Type1: with sliding window

Type2 : only glass without sliding window

CHARACTERISTICS

Driver cab and rear laminated safety glass with the approval of the ECR 43 to transport vehicles: buses, trams, trolleybuses, etc.

The window with display and electroheated function.

Frame material	aluminum EN-AW 6060 T66			
Frame painting	powder RAL		anodizing	
Handle version	the lock on the square 8mm		without lock	
Glass painting	ceramic paint – sieveprint		without print	
Glass type	laminated	electroheated	flat	curved
Bonding	acc. to DIN 6701-2			
Welding	acc. to DIN 15085-2			
Glass protection	antiscratch, antigraffiti foil			
Seal	acc. to EN45545-2			
Opening direction	right		left	
Drainage system	in the glass			

FIXED WINDOW



Type1: glued glass

Type2: glued frame with sealed glass

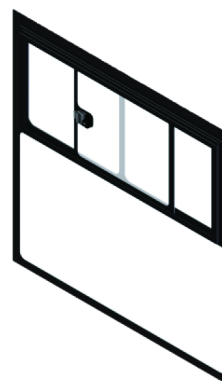
CHARACTERISTICS

Fixed window with safety glass with the approval of the ECR 43, UIC 564-1, UIC 560 to transport vehicles: trains, buses, trams, trolleybuses, etc.

The window with display function – electroheated glass 24V.

Frame material	aluminum EN-AW 6060 T66		
Frame painting	powder RAL	anodizing	
Glass painting	ceramic paint – sieveprint		without print
Glass type	tempered	laminated	insulated
Bonding	acc. to DIN 6701-2		
Welding	acc. to DIN 15085-2		
Glass protection	antiscratch, antigraffiti foil		
Seal	acc. to EN45545-2		
Maintenance	from inside/outside		

SLIDING WINDOW



Type1: frame glued on the glass

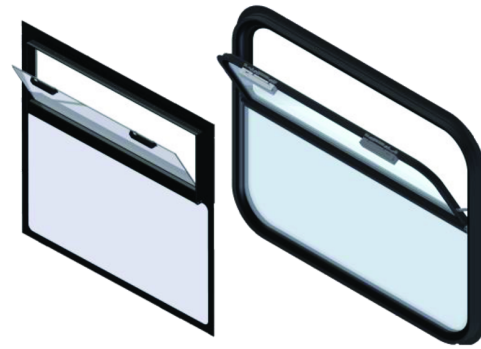
Type2 : frame glued with the glass transversely

CHARACTERISTICS

Sliding window horizontally composed of safety glass with the approval of the ECR 43 to transport vehicles: trains, buses, trams, trolleybuses, etc;

Frame material	aluminum EN-AW 6060 T66		
Frame painting	powder RAL	anodizing	
Handle version	the lock on the square 8mm	without lock	
Glass painting	ceramic paint – sieveprint		without print
Glass type	tempered	laminated	insulated
Bonding	acc. to DIN 6701-2		
Welding	acc. to DIN 15085-2		
Glass protection	antiscratch, antigraffiti foil		
Seal	acc. to EN45545-2		
Opening direction	right	left	
Drainage system	type 1 in the glass	type 2 in the frame	

TILTING WINDOW



Type1: tilting frame glued with bottom glass

Type2: tilting window in one frame

CHARACTERISTICS

Tilting window with opening angle of 35 degrees, safety glass with the approval of the ECR 43 to transport vehicles: trains, buses, trams, trolleybuses, etc.

Frame material	aluminum EN-AW 6060 T66		
Frame painting	powder RAL	anodizing	
Handle version	the lock on the square 8mm	without lock	
Glass painting	ceramic paint – sieveprint	without print	
Glass type	tempered	laminated	insulated
Bonding	acc. to DIN 6701-2		
Welding	acc. to DIN 15085-2		
Glass protection	antiscratch, antigraffiti foil		
Seal	acc. to EN45545-2		
Opening directions	inside		
Drainage system	in the frame		
Maintenance	from inside/outside		

DOORS AND GLASS WALLS



Type1: glass doors

Type2: aluminum sliding and hinged type doors

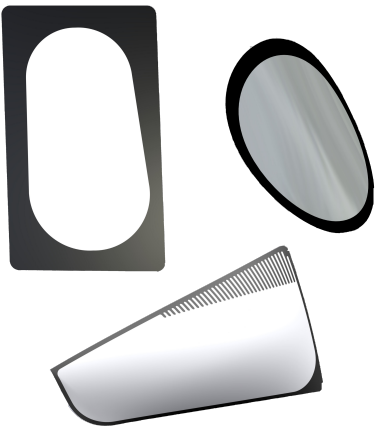
Type3: heavy steel doors for locomotive

CHARACTERISTICS

Glass, aluminum and steel doors. Sliding and hinged type with laminated safety glass. ECR approval for transport vehicles: trains, buses, trams, trolleybuses, ect.

Frame material	aluminum EN-AW 6060 T66		
Frame painting	powder RAL	anodizing	
Handle version	the lock on the square 8mm	without lock	
Glass painting	ceramic paint – sieveprint	without print	
Glass type	tempered	laminated	
Bonding	acc. to DIN 6701-2		
Welding	acc. to DIN 15085-2		
Glass protection	antiscratch, antigraffiti foil		
Seal	acc. to EN45545-2		
Opening directions	right	left	automatic
Door leaf	single	double	

REFLECTOR GLASS



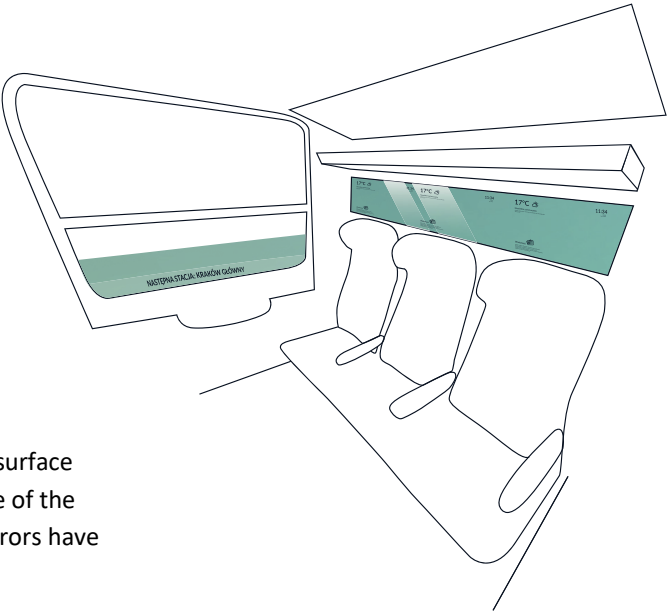
CHARACTERISTICS

Reflector safety glass with the approval of the ECR 43 to transport rail vehicles;

The window with electroheated function.

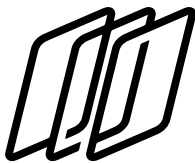
Glass painting	ceramic paint – sieveprint		
Glass type	laminated	flat	curved
Bonding	acc. to z DIN 6701-2		
Electroheated glass	24V		

MIRRORS

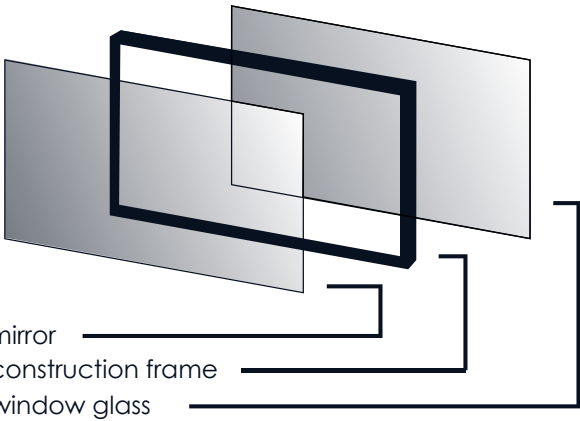


CHARACTERISTICS

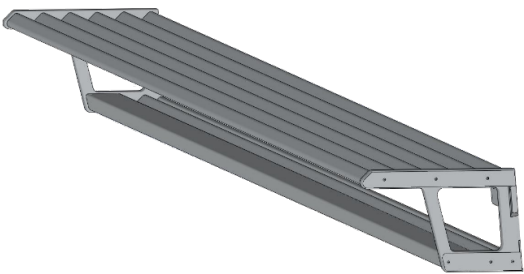
Special design allows installation on all kind of flat surface (i.e. walls, place of the glass). Using mirrors in place of the glass reduce the window's translucent surface. Mirrors have a specially prepared casing for safety, strength and combustibility requirements.



Mirror Investment



LUGGAGE SHELF



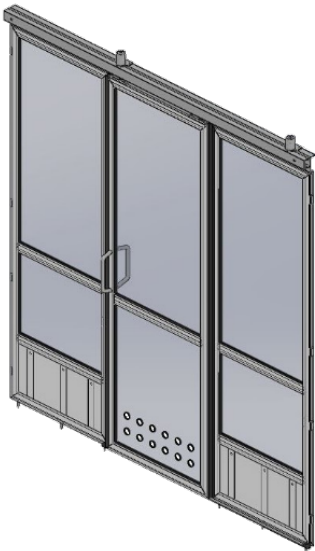
CHARACTERISTICS

Aluminum construction –welded profiles and plate, produced in accordance with UIC 566.

Additional option with glass and lighting available.

Material	aluminum plate EN-AW 5754/ aluminum profiles EN-AW 6060	
Frame painting	powder RAL	wet system
Welding	acc. to z DIN 15085-2	

SLIDING WALL

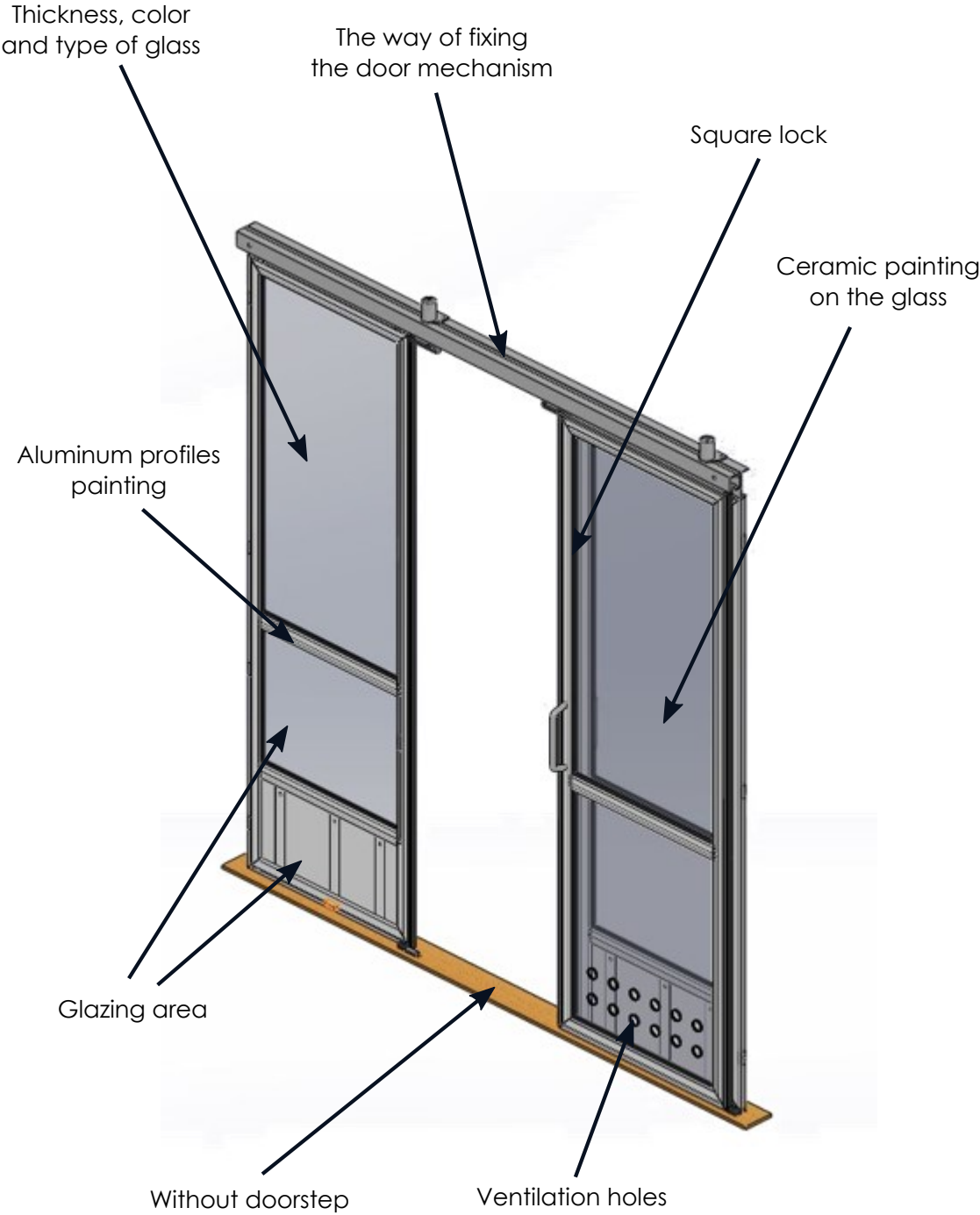


CHARACTERISTICS

Modular construction consist of the safety glass and welded aluminum plates and profiles. Fast assembly and replacement of the glazing. Design fit to customer’s requirements.

Frame material	aluminum plate EN-AW 5754/ aluminum profiles EN-AW 6060	
Frame painting	powder RAL	anodizing
Glass painting	ceramic paint – sieveprint	without print
Glass type	tempered	laminated
Welding	acc. to DIN 15085-2	
Glass protection	antiscratch, antigrafitti foil	
Seal	acc. to EN45545-2	
Opening system	manual sliding system	automatic

POSSIBLE MODIFICATIONS AT CLIENT’S REQUEST

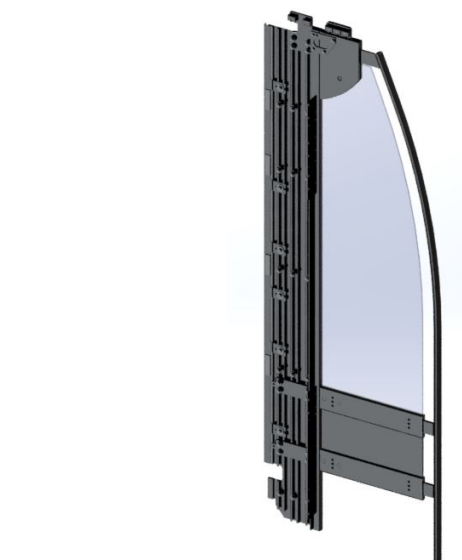


GLASS WALL

CHARACTERISTICS

Aluminum and stainless steel construction –welded profiles and plate with safety glass. Fast assembly and replacement of the glazing using selas.

Additional option without glass and different configurations available.



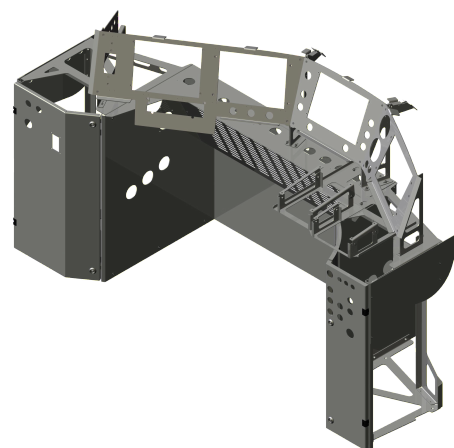
Frame material	aluminum EN-AW 5754, EN-AW 6060 T66/ stainless steel 1.4301	
Frame painting	powder NCS	
Glass painting	ceramic paint – sieveprint	without print
Glass type	tempered	
Welding	acc. to DIN 15085-2	
Seal	acc. to EN45545-2	

DESKTOP RACK

CHARACTERISTICS

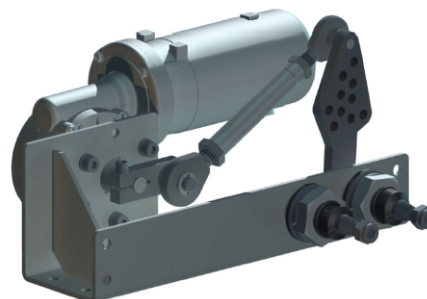
Aluminum constructions – desktop rack equipped with inspection covers and doors with square locks 8mm for rail vehicles.

We offer also laminated covers for desktop rack.



Frame material	aluminum plate EN-AW 5754	
Frame painting	powder RAL	wet system
Lock type	square lock 8mm	without lock
Bonding	acc. to DIN 6701-2	
Welding	acc. to z DIN 15085-2	

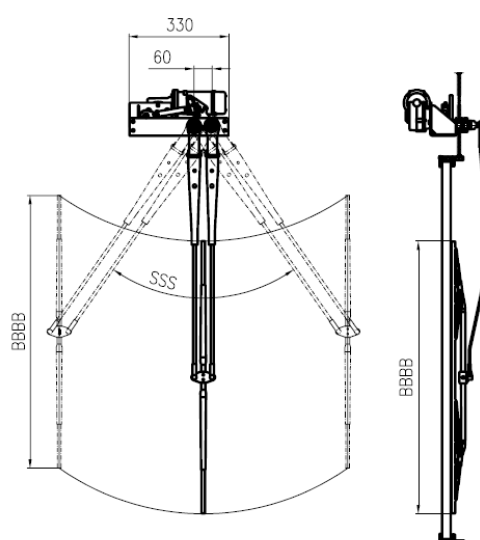
PANTOGRAPH WIPERS



CHARACTERISTICS

Wipers are characterized by high durability and long life service. Designed for heavy-duty applications. Equipped with 24 or 230 VDC engine.

Operating range (dimension SSS)	from 31,0° to 93,4°
Arm's length (dimension AAAA)	from 400mm to 1200mm
Blades length (dimension BBBB)	from 350mm to 1600mm
Material	stainless steel



ADDITIONAL COMPONENTS

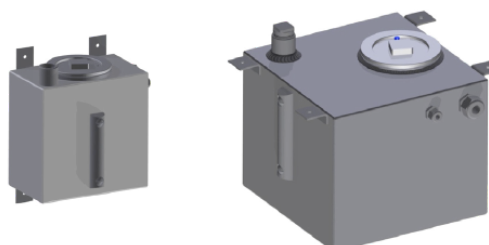
WCP – wipers control panels

Operates with 1 to 6 wipers. On/Off, two speeds.
Power supply 24 VDC.

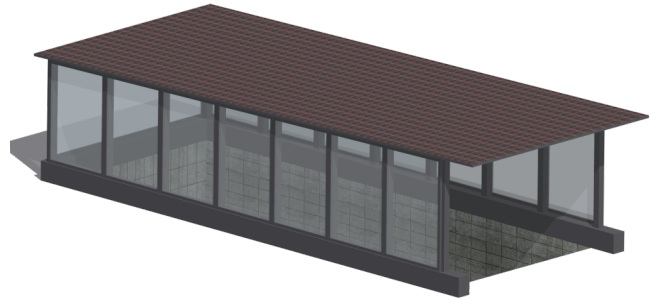


Water tanks

Capacity from 10 l to 100 l. Equipped with 12 VDC water pump and non return valve. Can be connected to fresh water ship supply by the 1 inch pipe.



STEEL RAILWAY ARCHITECTURE GLAZED



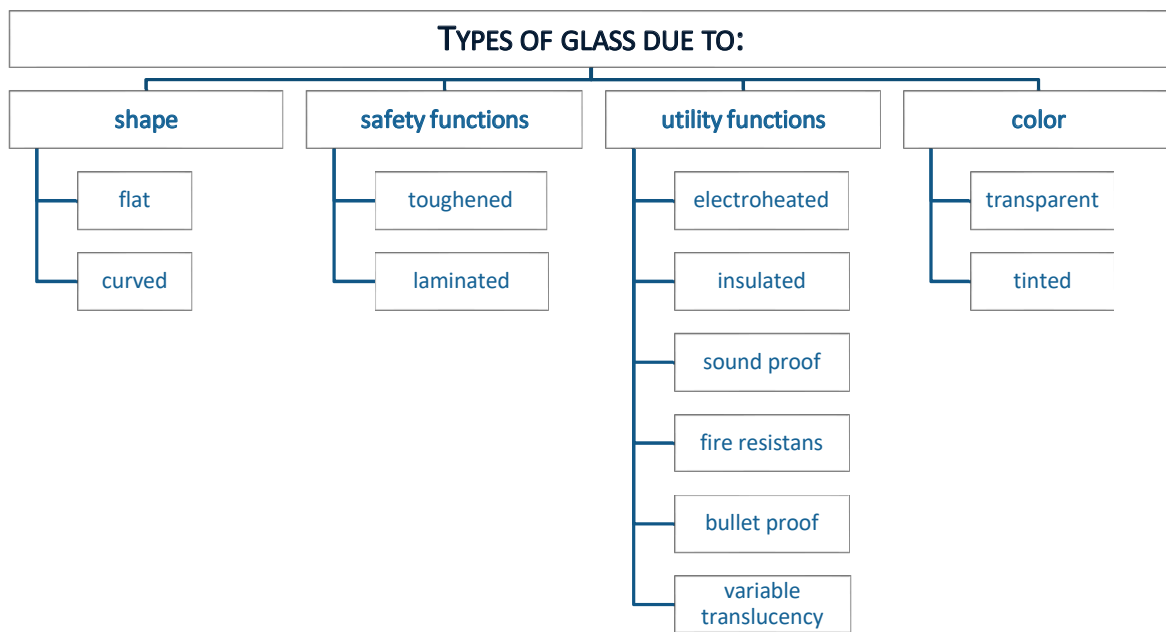
CHARACTERISTICS

Small architecture - steel structures with safety glazing: the design, manufacture full range.

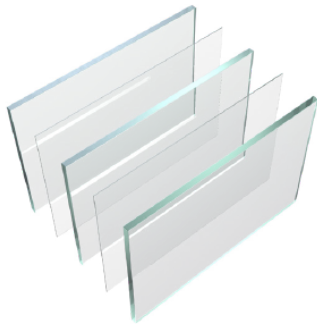
Glazing objects such as railway stations, bus shelters.



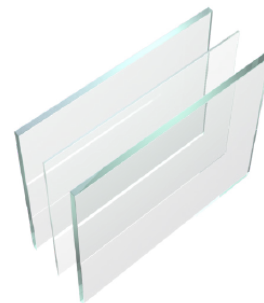
TYPES OF OFFERED GLASS



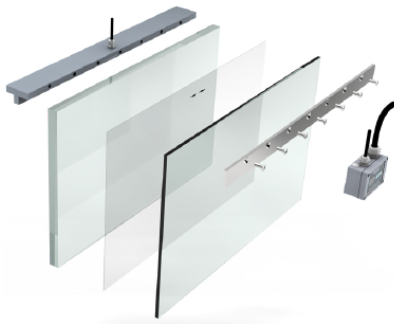
ARMEX – bullet resistant glass



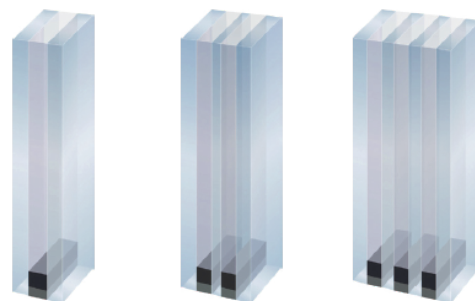
PRIVA CONTROL – variable translucency glass



Electroheated glass



BOHFLAM – fire resistant glass



OTHER SERVICES

- Unusual implementations of bent glass
- Bonding service
- Interval renovations
- Window renovation



CERTIFICATES

43R approval granted.

Certificate Class A1 acc. to DIN 6701-2.

Certificate CL1 acc. to EN 15085-2.

Quality Management System ISO/TS 22163:2017.

Quality Management System ISO 9001.

Certificate of conformity CZ IK acc. to UIC 566.



BOHAMET[®]



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