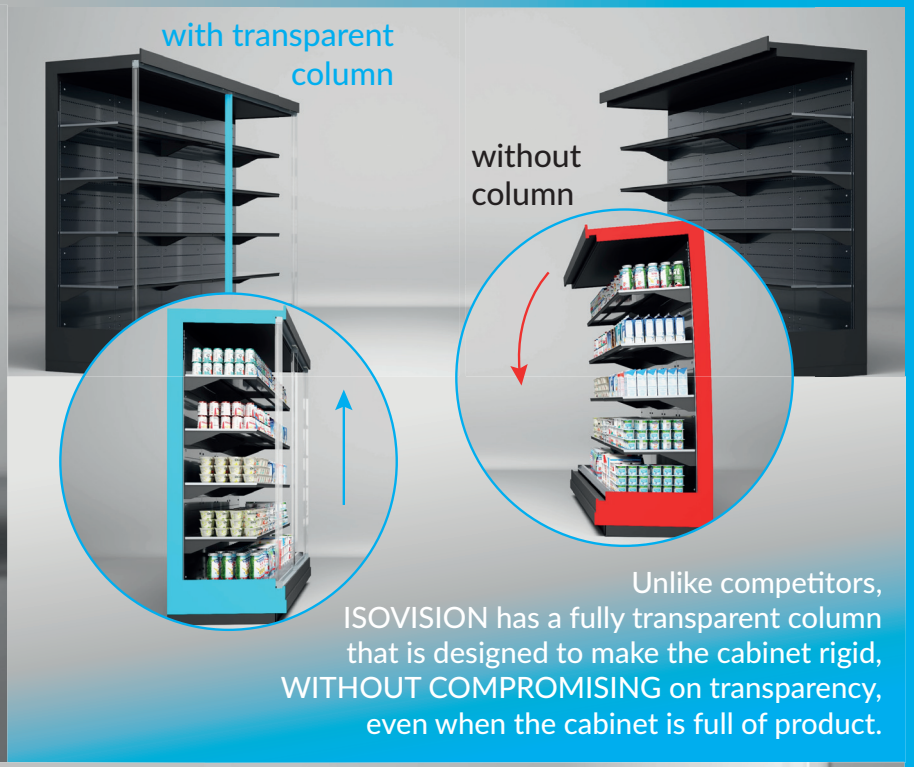
ISOVISION

THE MOST TRANSPARENT
INSULATING DOORS
IN THE WORLD
WITH OUR PATENTED
ISOVISION GLASS
TECHNOLOGY.

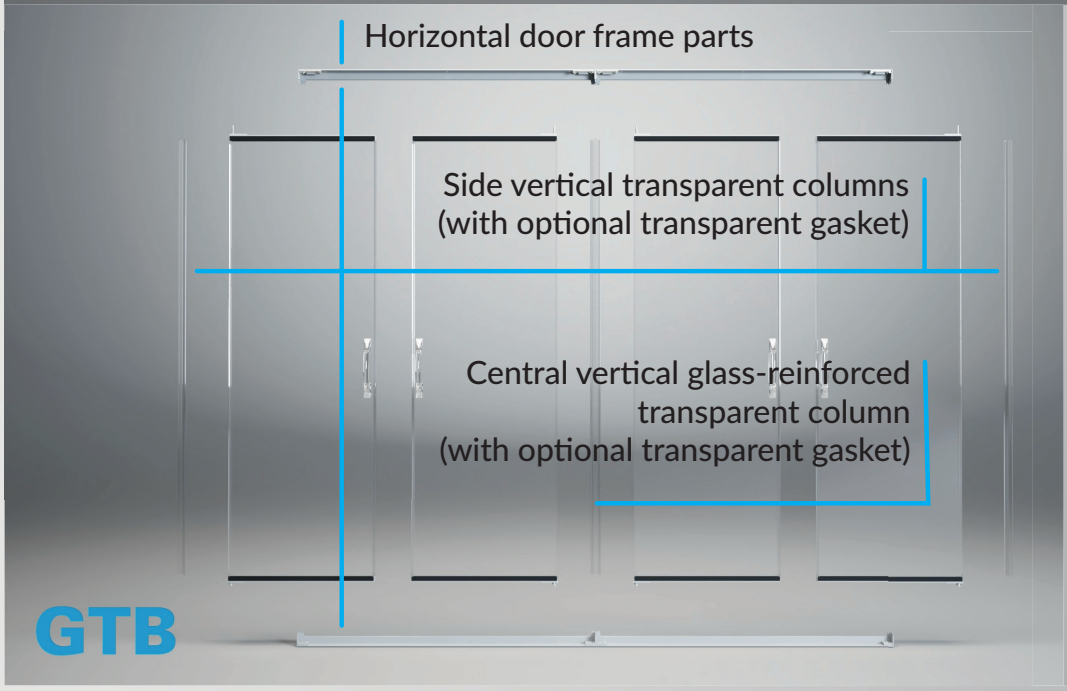
TECHNOLOGY PATENTED TECHNOLOGY

GTB group

Besides hinge doors, ISOVISION glass is also suitable
for both top and bottom rail sliding door systems



Unlike competitors,
ISOVISION has a fully transparent column
that is designed to make the cabinet rigid,
WITHOUT COMPROMISING on transparency,
even when the cabinet is full of product.



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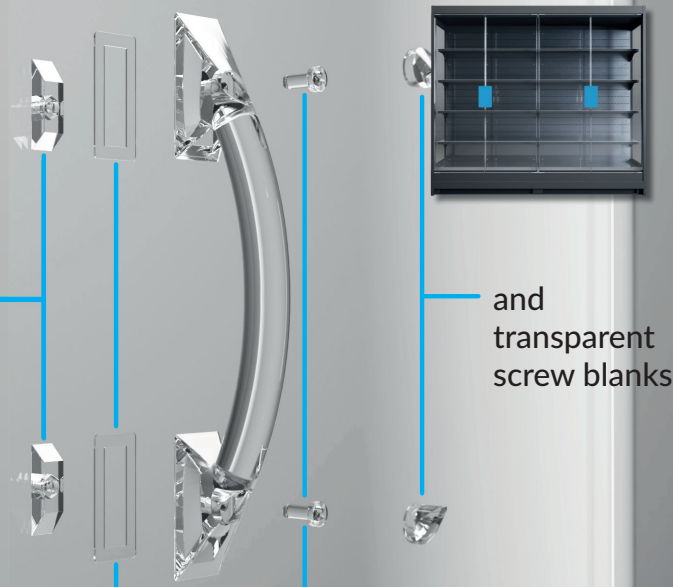
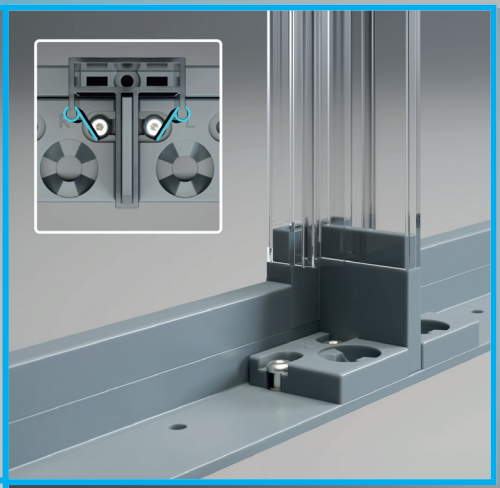
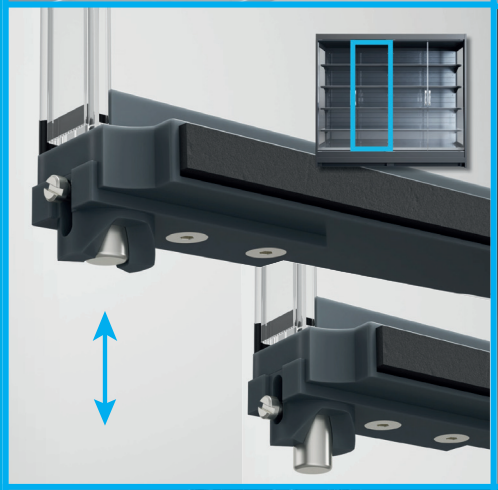
Handle is ready
to be assembled
on site with:



Parts easily
click-in
positions.

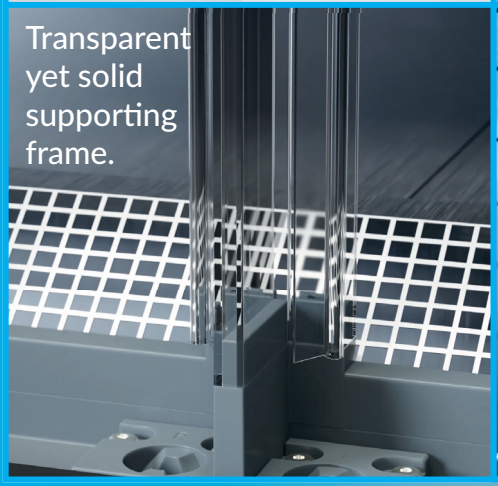




GTB ISOVISION
glass door is equiped
with several
convenient features.

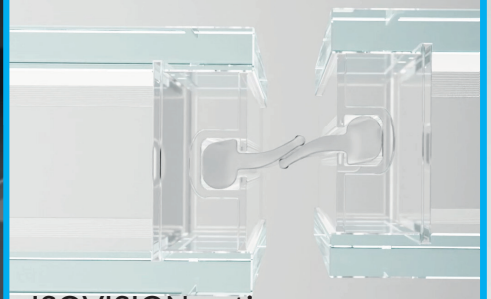
A spring-loaded
metal pivot serves
for practical
tool less door
removal
and maintenance.

Optional:
Gaskets on both sides
of the central vertical glass-reinforced
transparent column



Transparent
yet solid
supporting
frame.

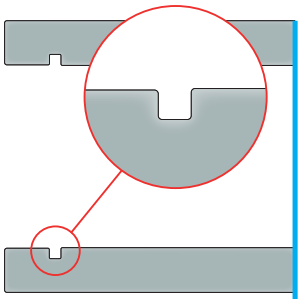
Fully
transparent
handle



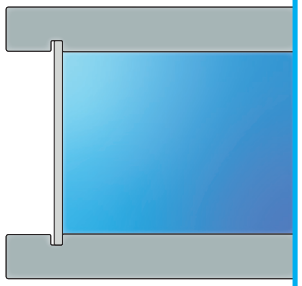
ISOVISION option:
Sealed in transparent profile,
equipped with a groove
for gasket placement.

Insulation strip
and neodym magnet
are embedded
directly into a door recess
rather than
the frame.

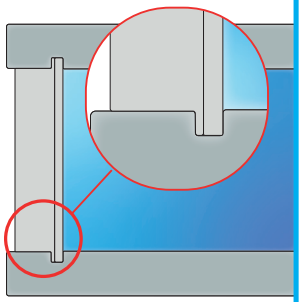
ISOVISION The one truly TRANSPARENT INSULATION GLASS with thermal properties value U=1,1 W/m2K.



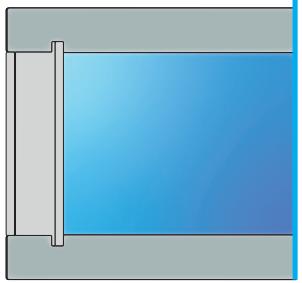
The production process makes no compromise. Firstly, two grooves are milled into two opposite glass panes.



Secondly a transparent plastic profile is precisely inserted into the grooves.

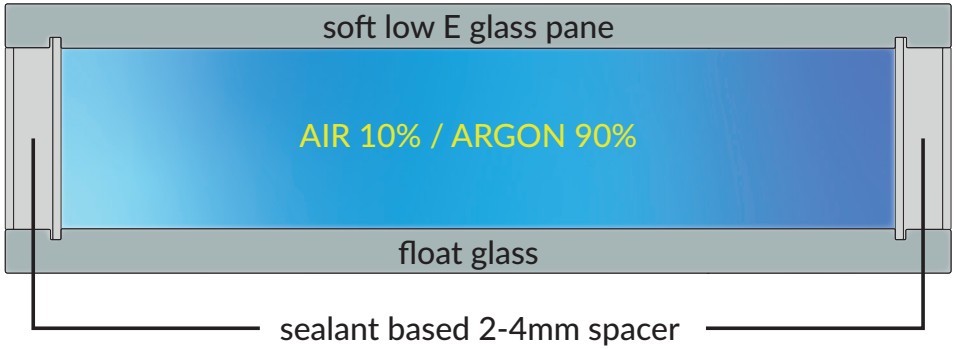


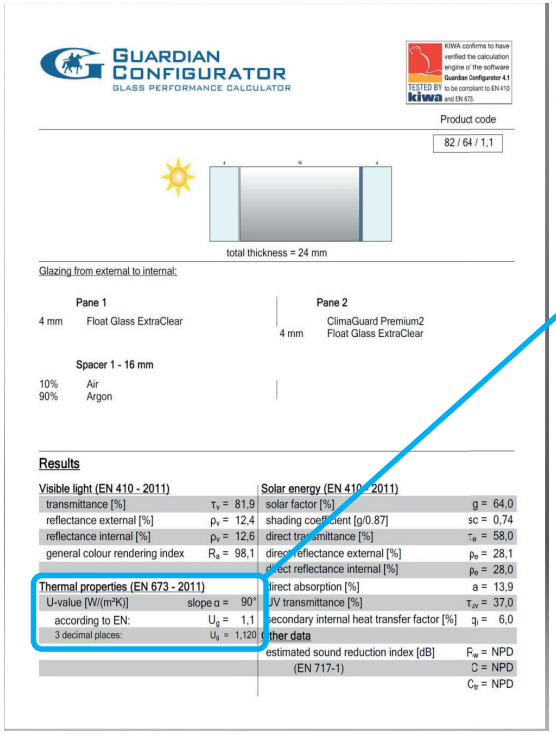
After that, a transparent sealant is pressed between the two glass panes, filling the grooves and perfectly sealing entire area.



In the final phase a transparent plastic profile is glued in, to protect and cover the sealant.

GTB ISOVISION - GLASS COMPOSITION with U=1,1 W/m2K





GUARDIAN CONFIGURATOR
GLASS PERFORMANCE CALCULATOR

KIWA confirms to have verified the calculation engine o' the software Guardian Configurator 4.1 TESTED BY kiwa to be corrolant to EN 410 and EN 673.

Product code: 82 / 64 / 1,1

total thickness = 24 mm

Glazing from external to internal:

Pane 1		Pane 2	
4 mm	Float Glass ExtraClear	4 mm	ClimaGuard Premium2 Float Glass ExtraClear

Spacer 1 - 16 mm

10%	Air
90%	Argon

Results

Visible light (EN 410 - 2011)		Solar energy (EN 410 - 2011)	
transmittance [%]	τ_v = 81,9	solar factor [%]	g = 64,0
reflectance external [%]	ρ_v = 12,4	shading coefficient [g/0.87]	sc = 0,74
reflectance internal [%]	ρ_v = 12,6	direct transmittance [%]	τ_e = 58,0
general colour rendering index	R_a = 98,1	direct reflectance external [%]	ρ_e = 28,1
		direct reflectance internal [%]	ρ_e = 28,0
Thermal properties (EN 673 - 2011)		direct absorption [%]	a = 13,9
U-value [W/(m²K)]	slope α = 90°	UV transmittance [%]	τ_{uv} = 37,0
according to EN:	U_g = 1,1	secondary internal heat transfer factor [%]	q_i = 6,0
3 decimal places:	U_g = 1,120	Other data	
		estimated sound reduction index [dB]	R_w = NPD
		(EN 717-1)	C = NPD
			C_{tr} = NPD

Thermal properties (EN 673 - 2011)

U-value [W/(m²K)]	slope α =	90°
according to EN:	U_g =	1,1
3 decimal places:	U_g =	1,120

Thanks to the use of soft low E glass ClimaGuard Premium 2, the ISOVISION glass reaches thermal property values of Ug=1,1 (EN 673-2011)

Transparent ISOVISION glass is 10% UV resistant.

GTB group

www.gtbgroup.cz
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