

Стеклянные двери и перегородки для холодильников SafeFlex, Safe TTplus, Safe Tplus, Safe Tmax, Safe TS

Технические характеристики

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Glass doors for refrigerated wall multidecks: Safe TT

The advantages at a glance

- Maximum transparency with glass spacers
- Maximum energy savings -> Low-e (R 1.1*)
- We also offer complete systems for cold stores:
Energy-saving glass doors and efficient goods displays from a single source.
-> Contact us!



Safe TT - a crystal-clear display for your goods

Technical data

Frame height	1200 mm - 2000 mm
Module length	Standard: 1250 mm (2-door), 1875 mm (3-door) other grid lengths available
Panes	Insulating glass 22 mm (2x single-pane safety glass), Ug value 1.1*
Climate class	3 (25°C/60% r.h / from 4°C)
Colours	Door and frame profiles top/bottom in RAL 7004 RAL 7016
Handles	See overview on pages 42/43
Closing system	Less than 90° automatically closing
Lighting	LED available in 3 colours: Neutral white, paste/cheese, meat colour
Pane version optional	3 anti reflex + 1x low-e, R 1.1 and reflection 3%
Optionally available	Door hinge on one side,

* The lower the Ug value, the greater the energy savings

** As per DIN EN 23953 and also depending on the refrigeration cabinet type, refrigeration system, and number of times the cabinet is opened etc.



Safe TT: High-transparency insulating glass hinged door for a crystal clear view

Safe TT is a two-leaf insulating glass door module with variable dimensions for the initial fitting and retrofitting of refrigerated multidecks.

It stands out due to its exceptional transparency thanks to the use of glass spacers. Additional features include the exceptional visibility and even refrigeration. Simple operation, easy cleaning and the premium stainless steel look handles round off the *Safe TT*.

Energy savings of up to 77% mean the investment pays for itself within a short space of time. Compliance with the refrigeration temperatures is guaranteed together with low CO₂ emissions.

Glass doors for refrigerated wall multidecks: Safe Tmax

The advantages at a glance

- Maximum transparency thanks to narrow glass surround
- Even refrigeration
- We also offer complete systems for cold stores:
Energy-saving glass doors and efficient goods displays from a single source.



Safe Tmax - excellent visibility combined with even refrigeration

Technical data

Frame height	1200 mm - 2000 mm
Module length	Standard: 1250 mm, 1875 mm; other grid lengths available
Panes	Insulating glass 22 mm (2x single-pane safety glass), Ug value 1.1*
Climate class	3M1 (25°C/60% r.h /-1°C to + 5°C)
Colours	Frame and door profiles in RAL 7004 RAL 7016
Handles	See overview on pages 42/43
Closing system	Less than 90° automatically closing
Lighting	LED available in 3 colours: Neutral white, paste/cheese, meat colour
Pane version optional	1x low-e (R 1.1); 3 anti reflex + 1x low-e (R 1.1)
Optionally available	Door hinge on one side,

* The lower the Ug value, the greater the energy savings

** As per DIN EN 23953 and also depending on the refrigeration cabinet type, refrigeration system, and number of times the cabinet is opened etc.



Safe Tmax: High-transparency insulating glass hinged door for an unobstructed view

Safe Tmax is a two-leaf insulating glass door module with variable dimensions for the initial fitting and retrofitting of refrigerated multidecks.

The glass door offers exceptional visibility for optimal goods displays and even refrigeration. The large opening makes use and cleaning child's play.

Premium stainless steel look handles with stop dampers round off the

Safe Tmax profile (page 48/49).

Energy savings of up to 77% mean the investment pays for itself within a short space of time. Compliance with the refrigeration temperatures is guaranteed together with low CO₂ emissions.

Glass doors for refrigerated wall multidecks: SafeFlex

The advantages at a glance

- Uniform door -> customised use
- Minimum spare parts requirements since, for example, the right door can also be used on the left
- Can be installed in the opening or without a canopy panel up to the top of the cabinet
- Can be customised to meet your specifications



SafeFlex - maximum flexibility for individual requirements

Technical data

Frame height	1200 mm - 2000 mm
Module length	Standard: 1250 mm, 1875 mm; other grid lengths available
Panes	Insulating glass 22 mm (2x single-pane safety glass), Ug value 1.1*
Climate class	3M1 (25°C/60% r.h /-1°C to + 5°C)
Colours	Frame profiles as per configuration
Handles	As per configuration (see overview on pages 42/43)
Closing system	Less than 90° automatically closing
Lighting	LED available in 3 colours: Neutral white, paste/cheese, meat colour
Pane version optional	As per configuration

* The lower the Ug value, the greater the energy savings

** As per DIN EN 23953 and also depending on the refrigeration cabinet type, refrigeration system, and number of times the cabinet is opened etc.



SafeFlex Basic



SafeFlex Comfort / Premium



SafeFlex Comfort / Premium



SafeFlex - options / configuration overview

Options	Basic	Comfort	Premium
Opening	Manual	Manual	Electric
Opening limitation	X	X	X
Closing system automatically	X	X	X
Insulating glass 22 mm with conventional spacers (Safe Tmax)	X	X	
Insulating glass 22 mm with highly transparent glass spacers (Safe TT)		X	X
1x low-e	X	X	X
3x anti reflex + 1x low-e		X	X
Handle	Plastic	High-quality metal handle	High-quality metal handle
Colour	RAL 7004	RAL 7004	RAL 7004
		RAL 7016	RAL 7016

Glass doors for refrigerated wall multidecks: Safe TS

The advantages at a glance

- Compromise between maximum transparency and energy savings
- With finger protection developed according to DIN EN ISO 13857
- Metallised safety glass for a radiation-resistant surface and a clear view



Safe TS - a clear view with a single glazed hinged door module

Technical data

Frame height	1200 mm - 2000 mm
Module length	Standard: 1250 mm (2-door), 1875 mm (3-door); other grid lengths available
Panes	Single glazing 6 mm (single-pane safety glass)
Climate class	Not suitable for 3M1
Colours	Frame profiles silver anodised
Handles	Handle rings in grey RAL 7004 or bow handle (see overview on pages 42/43)
Closing system	Less than 90° automatically closing
Lighting	LED shelf lighting and canopy lighting available in 3 colours: Neutral white, paste/cheese, meat colour
Optionally available	Door hinge freely selectable

* The lower the Ug value, the greater the energy savings

** As per DIN EN 23953 and also depending on the refrigeration cabinet type, refrigeration system, and number of times the cabinet is opened etc.



Safe TS: Single glazed hinged door module

Safe TS is a two-leaf, single glazed hinged door module without a frame and represents a compromise between maximum transparency and energy savings.

Finger protection developed according to DIN EN ISO 13857 guarantees the necessary safety when using the door.

The doors are made of metallised safety glass and are radiation-reflective and clear.

The door hinge and the grip hole or stainless steel look handle option can be freely selected.

Energy savings of up to 45% mean the investment pays for itself within a short space of time.

Product comparison

Glass doors for refrigerated wall

	Safe TT	Safe Tmax (also for cold storage cells)	Safe Flex (various versions)
Profiles / colours	Door profiles top/bottom in RAL 7004 RAL 7016	Frame and door profiles in RAL 7004 RAL 7016	RAL 7004 Comfort & Premium: RAL 7004 RAL 7016
Handles	glued-on handles in stainless steel look (cryogenically decoupled)	glued-on handles in stainless steel look (cryogenically decoupled)	Basic: Grey plastic Comfort & Premium: Stainless steel
Adjustment	plus assembly kit		
Frame height	1200 - 2000 mm	1200 - 2000 mm	1000 - 2000 mm
Module length/width	Standard: 1250 mm, 1875 mm, other grid lengths available	Standard: 1250 mm, 1875 mm other grid lengths available	Length based on 625 mm grid
Cabinet design	straight side wall, flush with front edge of cabinet (no bumper), no gap to frame, internal lighting in canopy*		
Lighting	LED - vertical and horizontal available in 3 colours: Neutral white, paste/cheese, meat colour		
Required cabinet condition	perpendicular and level, without damage		
Standardised pane version	Single-pane safety glass with double insulating glazing and 1x low-e coating -> All-glass (glass spacers)	Single-pane safety glass with double insulating glazing and 1x low-e coating	Single-pane safety glass with double insulating glazing and 1x low-e coating (Comfort & Premium with all-glass)
Optional pane version	3x anti reflex + 1x low-e (R 1.1) 4x anti reflex (R 2.6)	3x anti reflex + 1x low-e (R 1.1) 4x anti reflex (R 2.6)	In Comfort & Premium versions 3x anti reflex + 1x low-e (R 1.1), All-glass (glass spacers)
Glass structure***	22 mm insulating glass: Single-pane safety glass 4 mm; Pane clearance 14 mm argon gas; Single-pane safety glass 4 mm		
Heat transfer (EN 673) Ug value***	1.1 W/m²K	1.1 W/m²K	1.1 W/m²K
Condensation forms at 60% r. h and a room temperature of:***	+ 30.5°C**	+ 30.5°C**	+ 30.5°C**
Dew point***	+ 21.6°C**	+ 21.6°C**	+ 21.6°C**
Emissivity***	0.03	0.03	0.03
Total reflection***	13%	13%	13%
Transparency***	80%	80%	80%
Climate class	3 (25°C / 60% r. h / from 4°C)	3M1 (25°C / 60% r. h/ -1°C to + 5°C)	3M1 (25°C / 60% r. h/ -1°C to + 5°C)
Closing system	Less than 90° automatically closing	Less than 90° automatically closing	90° automatically closing Basic & Comfort: manual Premium: electrical (Comfort with opening limitation)
Energy savings	50 - 77%	50 - 77%	50 - 77%

* Other designs and states possible for an additional charge

** As per DIN EN 23953 and also depending on the refrigeration cabinet type, refrigeration system, and number of times the cabinet is opened etc.

*** The values refer to the standard pane version

multidecks

Product comparison for glass doors

Safe TS	Shelf	Curve
Assembly profile: Anodised fastening RAL 7004	Door profiles in RAL 7004 RAL 7016	Frame profile from anodised aluminium; Pane surround in RAL 7004 RAL 7016
handle ring in RAL 7035 , alternative bow handle	full-length handle bar	narrow handle in RAL 7035
plus assembly kit		-
1200 - 2000 mm	1200 - 2000 mm	-
Standard: 1250 mm, 1875 mm, other grid lengths available	Standard: 1250 mm, 1875 mm, other grid lengths available	Length based on 652 mm grid. Width: 1250 mm - 3750 mm (end shelf on request)
straight side wall, flush with front edge of cabinet (no bumper), no gap to frame, internal lighting in canopy*		straight side wall flush with front edge of cabinet (without bumper), no gap to frame
shelf and canopy lighting possible: Neutral white, paste/cheese, meat colour	LED - vertical and horizontal: Neutral white, paste/cheese, meat colour	LED shelf lighting
perpendicular and level, without damage		perpendicular and level, without damage with functioning heaters
Single-pane safety glass with single glazing and a low-e coating	Single-pane safety glass with double insulating glazing and a low-e coating	
-	3x anti reflex + 1x low-e (R 1.1) 4x anti reflex (R 2.6)	3x anti reflex + 1x low-e (R 1.7) 4x anti reflex (R 2.6)
Single glazing 6 mm (single-pane safety glass)	22 mm insulating glass: 4 mm ESG; 14 mm argon gas; 4 mm ESG	16 mm insulating glass: 4 mm ESG; 8 mm argon gas; 4 mm ESG
3.7 W/m²K	1.1 W/m²K	1.7 W/m²K
+ 21.5°C**	+ 29.5°C**	+ 29.5°C**
+ 14°C**	+ 20.5°C**	+ 20.5°C**
0.18	0.03	
11%	13%	
81 %	80 %	
not suitable for 3M1	3M1 (25°C / 60% r. h/ -1°C to + 5°C)	
90° automatically closing	automatically closing, soft-close (electric)	manual
30 - 45%	50 - 77%	45 - 50%

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