

Technical information

# Standard sash casement



modus standard sash casement windows offer modern looks in all configuration styles

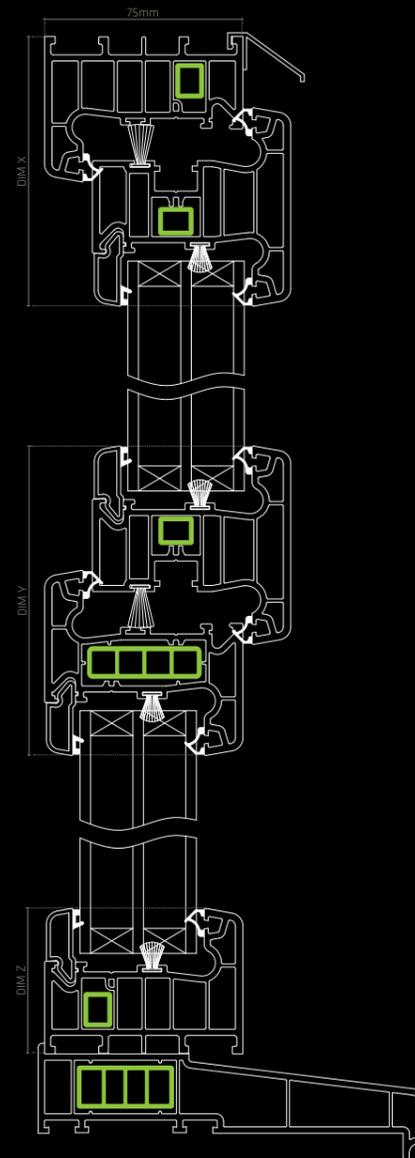
modus standard sash casement design offers a modern aesthetic to offer differentiation against traditional chamfered and ovolo systems. With a U-value as low as 0.7 possible with a triple-glazed unit and a French window option, it really is the future of PVC-U windows.

Min / max sizes	Width (mm)	Height (mm)
Top hung (espag)	Min: 320 Max: 1200	Min: 375 Max: 1350
Side hung	Min: 400 Max: 750	Min: 320 Max: 1500
Fixed	Max: 3000 Combined width and height 5400	Max: 2400

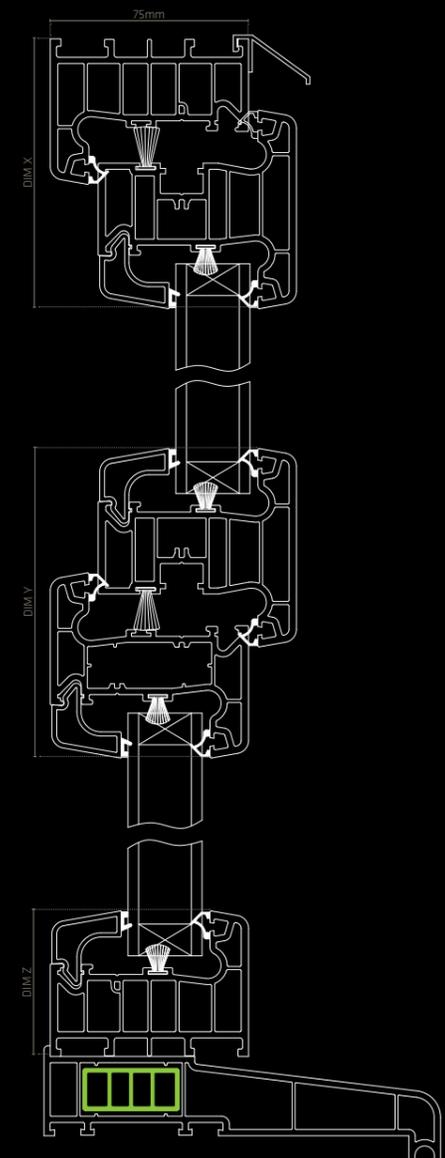
Config	Class 1 (external)	Class 2 (internal)	Class 3 (internal)	Gas fill	Spacer bar	Reinforcing	WER	Energy index	U value
4/16/4/16/4	Optiwhite	Pilkington S1+	Pilkington S1+	Krypton	SuperSpacer Premium	Full Thermal	A+	15	0.7
4/16/4/16/4	Optiwhite	Pilkington KS	Pilkington KS	Argon	SuperSpacer Premium	Full Thermal	A+	31	0.8
4/20/4	Optiwhite	N/A	Pilkington KS	Argon	SwisSpacer Ultimate	None	A+	12	1.3
4/20/4	Diamant	N/A	Planitherm Total+	Argon	SuperSpacer Premium	None	A+	12	1.3
4/20/4	Clearvision	N/A	Planibel A	Argon	SuperSpacer Premium	None	A	9	1.4

Contact our Technical department for additional performance specifications

## Standard sash window Triple-glazed



## Standard sash window Double-glazed



Frame dimension	Dim X
Main Frame (LSF 1021) with Sash T (LSF 1005)	102mm
Large Main Frame (LSF 1006) with Sash T (LSF 1005)	117mm

Frame dimension	Dim Y
Sash T (LSF 1005) with Transom Z (LSF 1003)	117mm
Sash T (LSF 1005) with Intermediate Transom Z (LSF 1023)	132mm

Frame dimension	Dim Z
Main Frame (LSF 1021)	55mm
Large Main Frame (LSF 1006)	70mm

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# Slim rebate sash casement



modus slim rebate sash casement windows offer flush internal aesthetics for ultimate sleek looks

modus slim rebate sash windows offer internally flush and externally slim rebated sashes for a sleek look to rival aluminium systems. A range of Grey and metallic finishes add to the aesthetic, and you can even experiment with differing internal finishes. This delivers significant cost savings over aluminium, as well enhanced thermal performance.

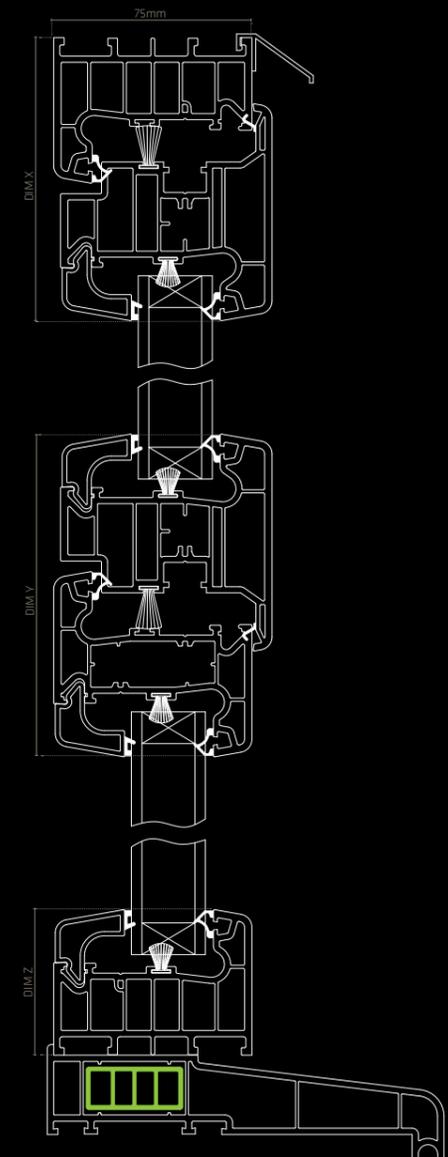
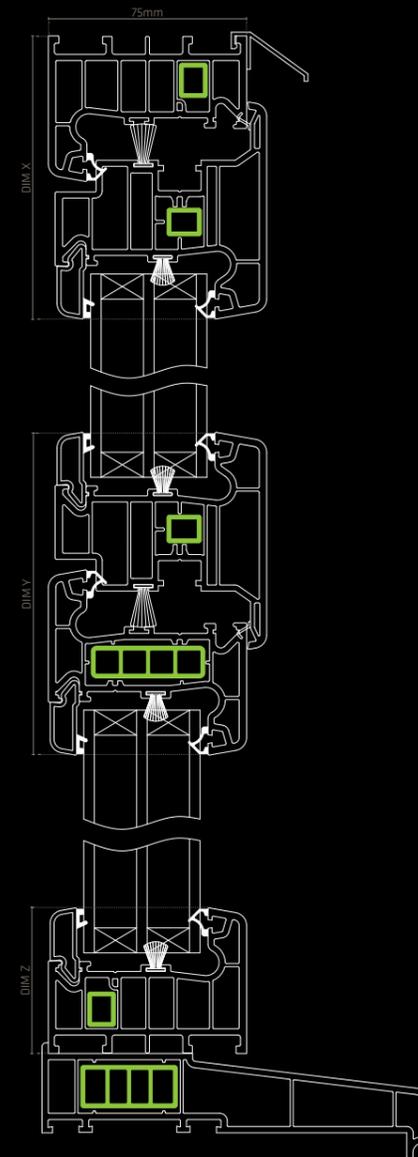
Min / max sizes	Width (mm)	Height (mm)
Top hung (espag)	Min: 320 Max: 1200	Min: 375 Max: 1350
Side hung	Min: 400 Max: 750	Min: 320 Max: 1500
Fixed	Max: 3000 Combined width and height 5400	Max: 2400

Config	Glass 1 (external)	Glass 2 (internal)	Glass 3 (internal)	Gas fill	Spacer bar	Reinforcing	WER	Energy index	U value
4/16/4/16/4	Diamant	Planitherm One	Planitherm One	Krypton	SuperSpacer Premium	Full Thermal	A	9	0.7
4/16/4/16/4	Optiwhite	Pilkington KS	Pilkington KS	Argon	SuperSpacer Premium	Full Thermal	A+	31	0.8
4/20/4	Optiwhite	N/A	Pilkington KS	Argon	SwisSpacer Ultimate	None	A	9	1.3
4/20/4	Diamant	N/A	Planitherm Total+	Argon	SuperSpacer Premium	None	A+	12	1.3
4/20/4	Float	N/A	Planibel A	Argon	SuperSpacer Premium	None	A	0	1.4

Contact our Technical department for additional performance specifications

## ≡ Slim rebate sash window Triple-glazed

## ≡ Slim rebate sash window Double-glazed



Frame dimension	Dim X
Main Frame (LSF 1021) with Slim Rebate Sash (LSF 1004)	107mm
Large Main Frame (LSF 1006) with Slim Rebate Sash (LSF 1004)	122mm

Frame dimension	Dim Y
Slim Rebate Sash (LSF 1004) with Transom Z (LSF 1003)	122mm
Slim Rebate Sash (LSF 1004) with Intermediate Transom Z (LSF 1023)	137mm

Frame dimension	Dim Z
Main Frame (LSF 1021)	55mm
Large Main Frame (LSF 1006)	70mm

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# Flush sash casement



modus flush sash windows in Anteak offer a quality, natural woodgrain appearance to rival timber

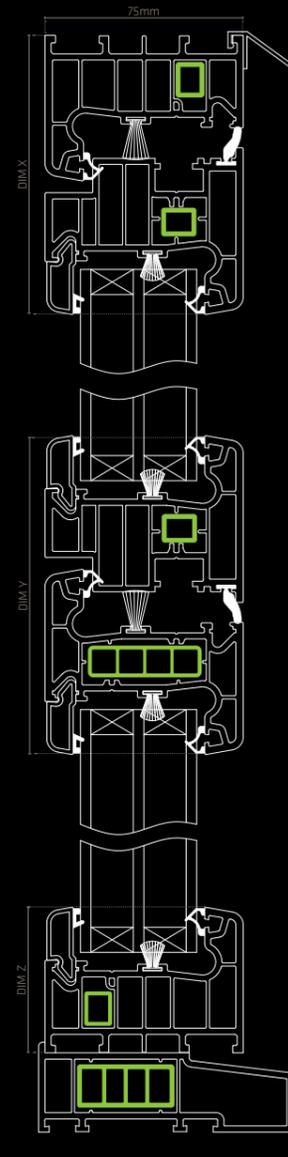
modus flush sash casement windows offer internally and externally flush sashes for an aesthetic to rival timber systems. A range of woodgrain foils means you can achieve a truly natural woodgrain appearance, without the associated costs. It is the first co-extruded flush sash on the UK market, and offers better thermal performance than a traditional timber windows.

Min / max sizes	Width (mm)	Height (mm)
Top hung (espag)	Min: 320 Max: 1200	Min: 375 Max: 1350
Side hung	Min: 400 Max: 750	Min: 320 Max: 1500
Fixed	Max: 3000 Combined width and height 5400	Max: 2400 Combined width and height 5400

Config	Class 1 (external)	Class 2 (internal)	Class 3 (internal)	Gas fill	Spacer bar	Reinforcing	WER	Energy index	U value
4/16/4/16/4	Diamant	Planitherm One	Planitherm One	Krypton	SuperSpacer Premium	Full Thermal	A	9	0.7
4/16/4/16/4	Optiwhite	Pilkington KS	Pilkington KS	Argon	SuperSpacer Premium	Full Thermal	A+	31	0.8
4/20/4	Optiwhite	N/A	Pilkington KS	Argon	SwisSpacer Ultimate	None	A	12	1.3
4/20/4	Diamant	N/A	Planitherm Total+	Argon	SuperSpacer Premium	None	A+	13	1.3

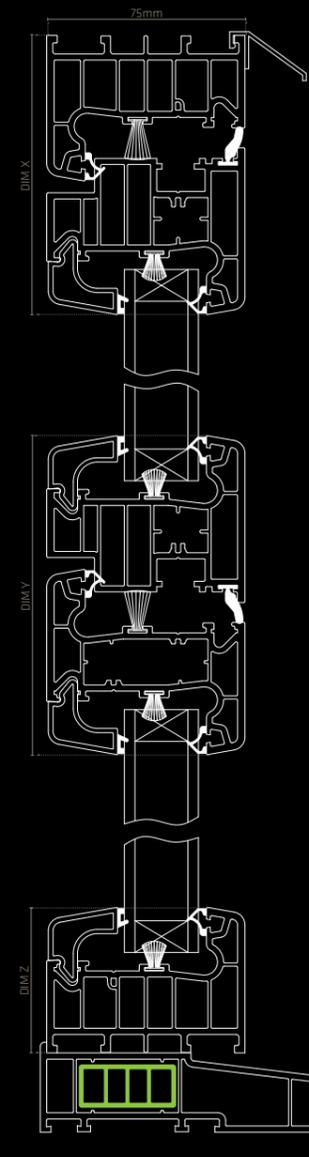
Contact our Technical department for additional performance specifications

## Flush sash window Triple-glazed



Frame dimension	Dim X
Main Frame (LSF 1021) with Reversible Sash (LSF 1008)	105mm
Large Main Frame (LSF 1006) with Reversible Sash (LSF 1008)	120mm

## Flush sash window Double-glazed



Frame dimension	Dim Y
Reversible Sash (LSF 1008) with Transom Z (LSF 1003)	120mm
Reversible Sash (LSF 1008) with Intermediate Transom Z (LSF 1023)	135mm

Frame dimension	Dim Z
Main Frame (LSF 1021)	55mm
Large Main Frame (LSF 1006)	70mm

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# Reversible windows



modus reversible windows are the most thermally efficient in the UK

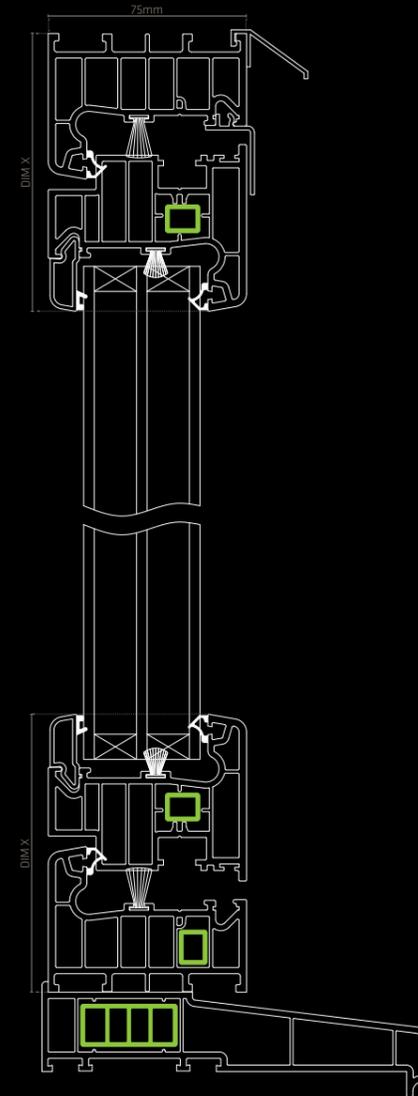
modus reversible windows have a completely flush sash internally and externally. As the first co-extruded reversible system in the UK, this innovative product delivers enhanced aesthetics as well as being the most thermally efficient in the UK. With a U-value as low as 0.7 achievable with a triple-glazed unit, it is the clear choice for new build and commercial projects.

Min / max sizes	Width (mm)	Height (mm)
Reversible windows	Min: 400 Max: 1250	Min: 563 Max: 1500

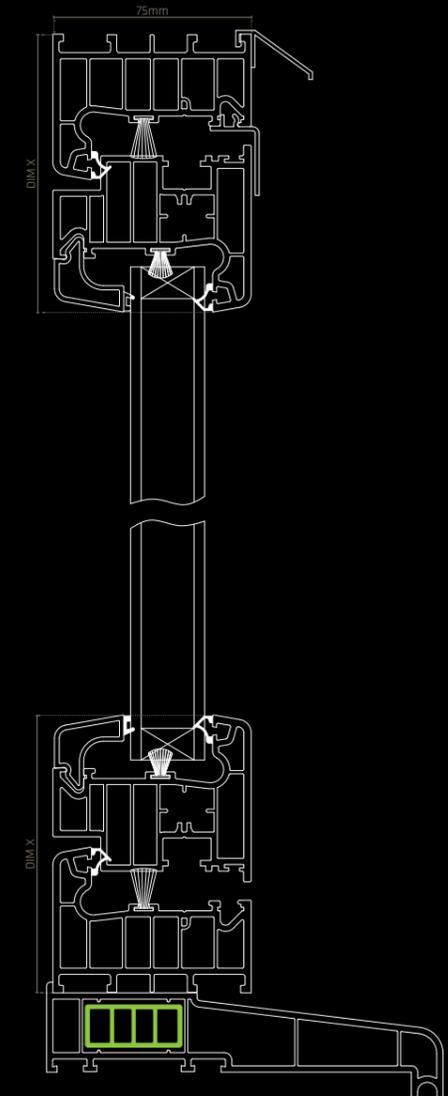
Config	Glass 1 (external)	Glass 2 (internal)	Glass 3 (internal)	Gas fill	Spacer bar	Reinforcing	WER	Energy index	U value
4/16/4/16/4	Diamant	Planitherm One	Planitherm One	Argon	SuperSpacer Premium	Full Thermal	A	3	0.8
4/16/4/16/4	Optiwhite	Pilkington KS	Pilkington KS	Argon	SuperSpacer Premium	Full Thermal	A+	30	0.8
4/20/4	Diamant	N/A	Planitherm Total+	Argon	SuperSpacer Premium	None	A	11	1.3
4/20/4	Optiwhite	N/A	Pilkington KS	Argon	SwisSpacer Ultimate	None	A	9	1.4

Contact our Technical department for additional performance specifications

Reversible window  
Triple-glazed



Reversible window  
Double-glazed



Frame dimension	Dim X
Main Frame (LSF 1021) with Reversible Sash (LSF 1008)	105mm
Large Main Frame (LSF 1006) with Reversible Sash (LSF 1008)	120mm

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# Tilt and turn windows



Dual opening modus tilt and turn windows are ideal for high-rise buildings where cleaning access is restricted

modus tilt and turn windows feature a stepped sash design that is complemented by a variety of foil options, including stunning new metallic foils in the Architectural Range. With no need for steel reinforcements and U-values as low as 0.7 achievable with a triple-glazed unit, it's the clear choice for commercial works.

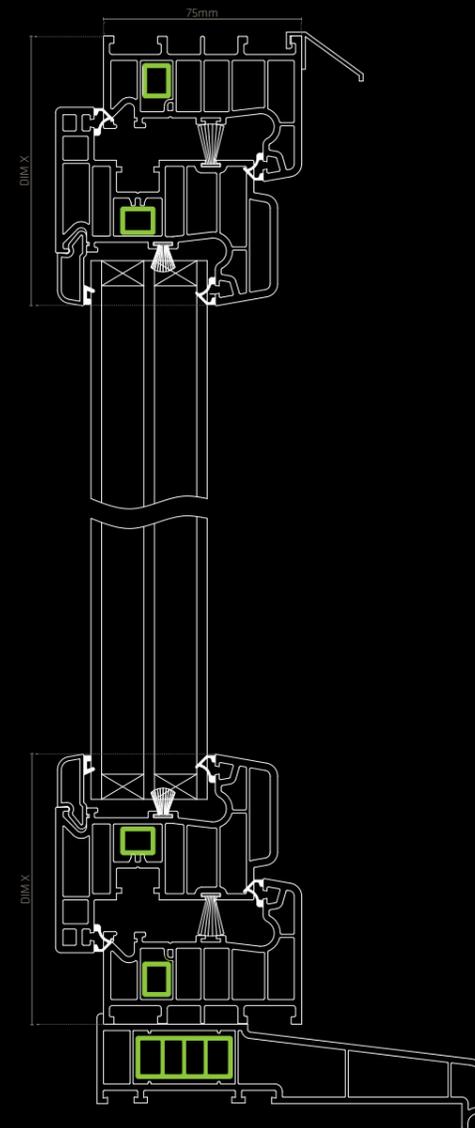
Min / max sizes	Width (mm)	Height (mm)
Tilt and turn windows	Min: 550 Max: 1500	Min: 550 Max: 1500

\* Dependant on size and location

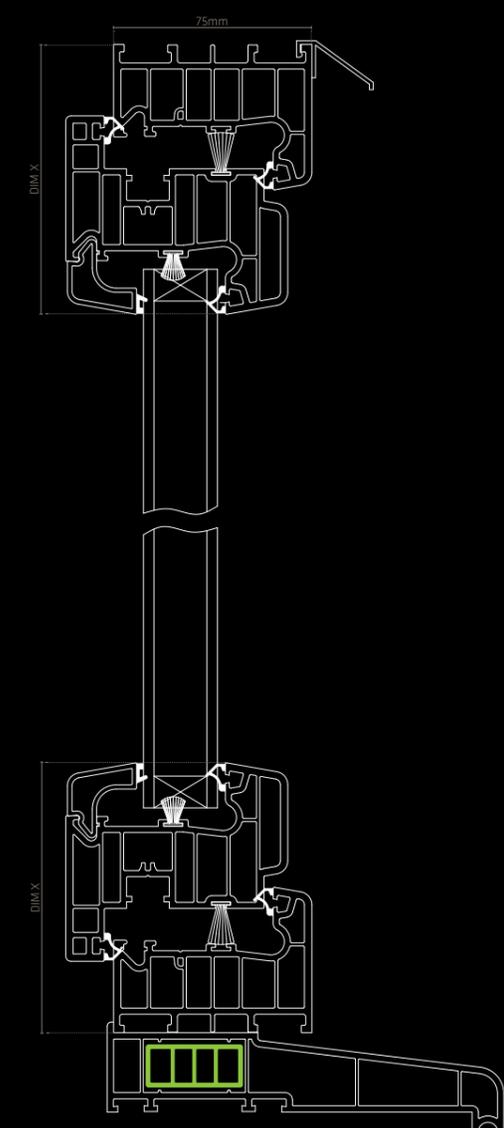
Config	Glass 1 (external)	Glass 2 (internal)	Glass 3 (internal)	Gas fill	Spacer bar	Reinforcing	WER	Energy index	U value
4/16/4/16/4	Diamant	Planitherm One	Planitherm One	Krypton	SuperSpacer Premium	Full Thermal	A	9	0.7
4/16/4/16/4	Diamant	Planitherm One	Planitherm One	Argon	SuperSpacer Premium	Full Thermal	A	5	0.8
4/16/4/16/4	Optiwhite	Pilkington KS	Pilkington KS	Argon	SuperSpacer Premium	Full Thermal	A+	31	0.8
4/20/4	Optiwhite	N/A	Pilkington KS	Argon	SwisSpacer Ultimate	Full Thermal	A	11	1.3
4/20/4	Diamant	N/A	Planitherm Total+	Argon	SuperSpacer Premium	Full Thermal	A+	16	1.3

Contact our Technical department for additional performance specifications

≡ Tilt and Turn window  
Triple-glazed



≡ Tilt and Turn window  
Double-glazed



Frame dimension	Dim X
Main Frame (LSF 1021) with Tilt & Turn Sash (LSF 1007)	102mm
Large Main Frame (LSF 1006) with Tilt & Turn Sash (LSF 1007)	117mm

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# French doors



These stunning modus French doors feature sleek, flat faces and authentic timber aesthetics

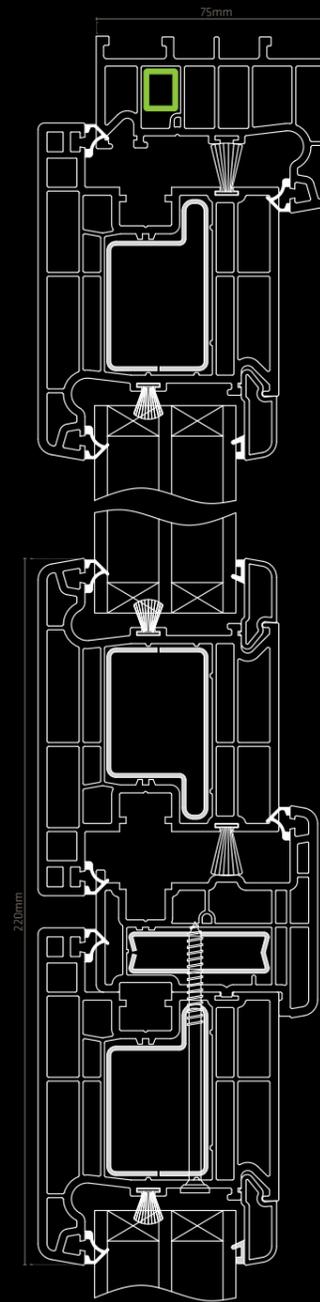
modus French doors feature sleek, flat faces for sophisticated looks. A dedicated mullion with a slim rebate improves sightlines, whilst an option of an additional third seal to improve weather performance is also available. Maximum thermal performance can be achieved with a triple-glazed specification, offering U-values as low as 0.8.

Min / max sizes	Width (mm)	Height (mm)
French doors	Min: 1200 Max: 2000	Min: 1800 Max: 2300

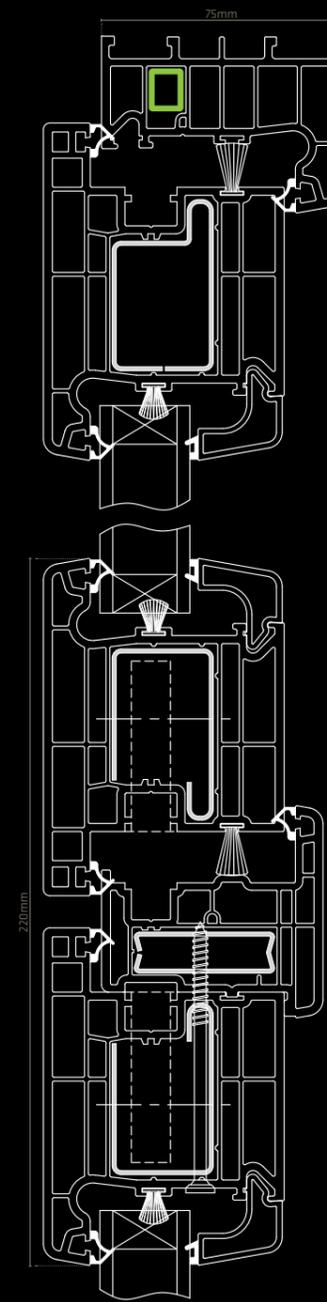
Config	Glass 1 (external)	Glass 2 (internal)	Glass 3 (internal)	Gas fill	Spacer bar	Reinforcing	WER	Energy index	U value
4/16/4/16/4	Diamant	Planitherm One	Planitherm One	Argon	SuperSpacer Premium	Full Thermal	B	-2	0.8
4/16/4/16/4	Optiwhite	Pilkington KS	Pilkington KS	Argon	SuperSpacer Premium	Full Thermal	A+	22	0.9
4/20/4	Optiwhite	N/A	Pilkington KS	Argon	SwisSpacer Ultimate	Full	A	8	1.3
4/20/4	Diamant	N/A	Planitherm One	Argon	SuperSpacer Premium	Full	C	-13	1.2

Contact our Technical department for additional performance specifications

French doors  
Triple-glazed



French doors  
Double-glazed



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# Entrance doors



↗ The possibilities are endless with modus entrance doors

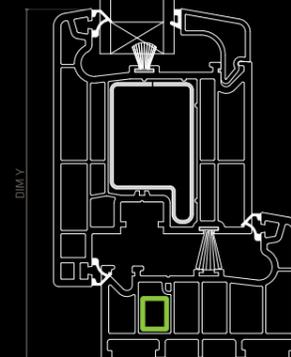
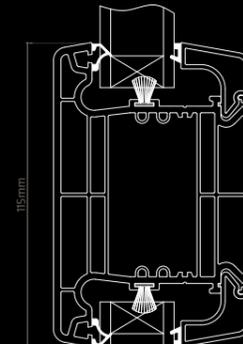
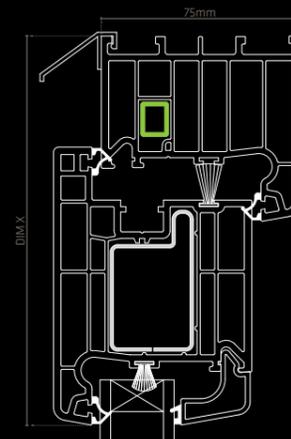
modus entrance doors offer ultimate flexibility. Whether you choose panels or glazing, the design options are plentiful, and even include the ability to mechanically join the transom or midrail. As with the French door, an optional third seal can be utilised to improve weather performance and U-values as low as 0.8 can be achieved with a triple glazed unit.

Min / max sizes	Width (mm)	Height (mm)
Entrance doors	Min: 800 Max: 1000	Min: 1800 Max: 2300

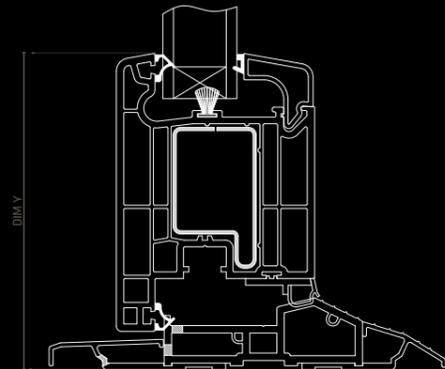
Config	Glass 1 (external)	Glass 2 (internal)	Glass 3 (internal)	Gas fill	Spacer bar	Reinforcing	WER	Energy index	U value
4/16/4/16/4	Float	Planitherm One	Planitherm One	Argon	SuperSpacer Premium	Full Thermal	A	-56	0.8
4/16/4/16/4	Optiwhite	Pilkington KS	Pilkington KS	Argon	SuperSpacer Premium	Full Thermal	A	-60	0.9
4/20/4	Optiwhite	N/A	Pilkington KS	Argon	SuperSpacer Premium	Full	C	-87	1.3
4/20/4	Float	N/A	Planitherm One	Argon	SuperSpacer Premium	Full	B	-81	1.2

Contact our Technical department for additional performance specifications

## ↘ Entrance door (with mid-rail) Double-glazed



## ↘ Entrance door Part M threshold



Frame dimension	Dim X
Main Frame (LSF 1021) with Door Sash T (LSF 1019)	132mm
Large Main Frame (LSF 1006) with Door Sash T (LSF 1019)	147mm

Frame dimension	Dim Y
Low threshold (LSF 1458) with Door Sash T (LSF 1019)	118mm
Main Frame (LSF 1021) with Door Sash T (LSF 1019)	132mm
Large main frame (LSF 1006) with Door Sash T (LSF 1019)	147mm
Part M low threshold with Door Sash T (LSF 1019)	120mm