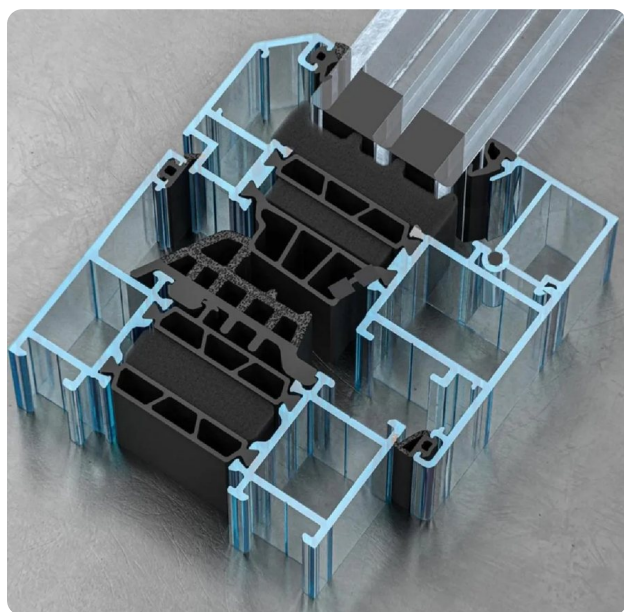


Systems catalogue

ZHONG-YAN aluminium window and door systems

Made in China · Hi-Tech Aluminium Products – representative in Kazakhstan



HTA-80 TT · Cross-section

Systems in this catalogue

HTA-80 TT	80 series, tilt & turn / inward casement	3
HTA-70 TT	70 series, tilt & turn / inward casement	4
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HTA-75/85 SLIM	75/85 series, ultra-narrow inward / outward casement	6
HTA-110 OUT	110 series, narrow outward window with integrated insect screen	7
HTA-80 TS	80 series, tilt & slide / tilt & turn window	8
HTA-110 LS	110 series, lift & slide door	9
HTA-152 LS	152 series, lift & slide door	10
HTA-100 SL	100 series, thermally broken sliding / lift & slide window	11
HTA-70 SL	70 series, sliding window	12
HTA-130/107 WG	130/107 series, winter garden	13

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How to read GB classes

The manufacturer states classes on the Chinese GB scale. A higher class is better, and each characteristic has its own ceiling. That is why this catalogue prints the physical value next to every class.

Class	Air permeability 气密性 lower is better		Watertightness 水密性 higher is better	Wind load resistance 抗风压性能 higher is better	Thermal insulation 保温性能 lower is better	Acoustic performance 隔声性能 higher is better
	q ₁ m ³ /(m·h)	q ₂ m ³ /(m ² ·h)	ΔP Pa	p ₃ kPa	K W/(m ² ·K)	Rw + Ctr dB
1	3.5–4.0	10.5–12	100–150	1.0–1.5	≥ 5.0	20–25
2	3.0–3.5	9.0–10.5	150–250	1.5–2.0	4.0–5.0	25–30
3	2.5–3.0	7.5–9.0	250–350	2.0–2.5	3.5–4.0	30–35
4	2.0–2.5	6.0–7.5	350–500	2.5–3.0	3.0–3.5	35–40
5	1.5–2.0	4.5–6.0	500–700	3.0–3.5	2.5–3.0	40–45
6	1.0–1.5	3.0–4.5	≥ 700	3.5–4.0	2.0–2.5	≥ 45
7	0.5–1.0	1.5–3.0		4.0–4.5	1.6–2.0	
8	≤ 0.5	≤ 1.5		4.5–5.0	1.3–1.6	
9				≥ 5.0	1.1–1.3	
10					< 1.1	

- Air permeability: q₁ per metre of opening joint, q₂ per m² of area.
- Thermal insulation: K is the heat transfer coefficient of the whole window, not of the frame (HTA note).
- Acoustic performance: Rw + Ctr, the scale for external windows.
- Scales from sheet 27 of the manufacturer’s catalogue, «门窗五性分级表». The sheet gives no standard numbers. Units for wind load (kPa) and thermal insulation (W/(m²·K)) are not printed on the sheet; they follow the GB system (HTA note).

Classes by series

Air · water · wind · thermal · sound – from the series sheets. Top of the scale highlighted.

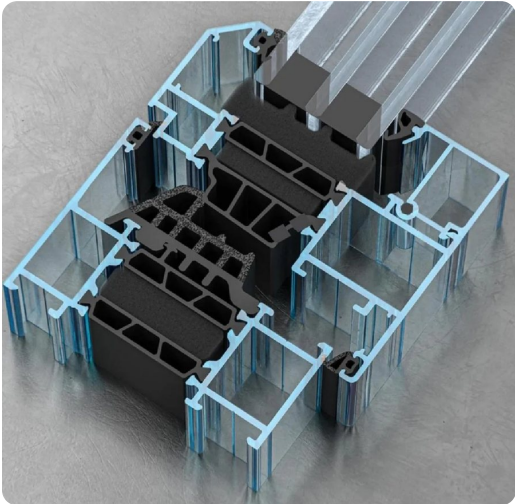
	Air permeability 气密性	Watertightness 水密性	Wind load resistance 抗风压性能	Thermal insulation 保温性能	Acoustic performance 隔声性能	Sheet
HTA-80 TT	7 / 8	5 / 6	9 / 9	7 / 10	5 / 6	3
HTA-70 TT	7 / 8	5 / 6	9 / 9	6 / 10	3 / 6	7
HTA-65 TT	7 / 8	5 / 6	9 / 9	7 / 10	3 / 6	5–6
HTA-75/85 SLIM	8 / 8	6 / 6	9 / 9	6 / 10	3 / 6	13
HTA-80 TS	8 / 8	5 / 6	9 / 9	6 / 10	4 / 6	9
HTA-110 LS	6 / 8	5 / 6	9 / 9	6 / 10	3 / 6	15
HTA-152 LS	6 / 8	5 / 6	9 / 9	6 / 10	3 / 6	17
HTA-70 SL	6 / 8	5 / 6	8 / 9	5 / 10	3 / 6	19

The manufacturer’s catalogue gives no GB classes for HTA-110 OUT, HTA-100 SL, HTA-130/107 WG (sheets 11–12, 21, 23).

HTA-80 TT

Triple glazing with two argon cavities, 39 mm thermal break

ZHONG-YAN catalogue: 80系列 内开内倒窗/内开窗 – 80 series, tilt & turn / inward casement, sheet 3



Cross-section

The manufacturer specifies this series for severe-cold regions, hot regions and high sound-insulation environments. Three panes, two argon cavities, Technoform warm edge; a 39 mm multi-chamber PA66GF25 thermal break with filled cavities. 6060-T5/T6 profile, 1.8 mm wall, Siegenia hardware.

Engineering

Alloy	6060-T5/6
Wall thickness	1.8 mm
Thermal break	39 mm multi-chamber strip, PA66GF25
Glazing	5G+12A+5G+12A+5Low-e three panes, two cavities, argon; Technoform warm edge spacer
Hardware	Siegenia German, black, highly weather-resistant anti-corrosion; manufacturer handle
Seals	EPDM, vulcanised welding; dual composite: foamed and dense contour
Insulation	PE wave foam strip plus filling of the thermal-break cavities with the insulation used in car and refrigerator doors

Field of application

A high-performance system solution developed for severe-cold regions, hot regions and environments with high sound-insulation requirements.
manufacturer's catalogue, sheet 3

The only series in the range the manufacturer specifies for severe-cold regions.

GB classes

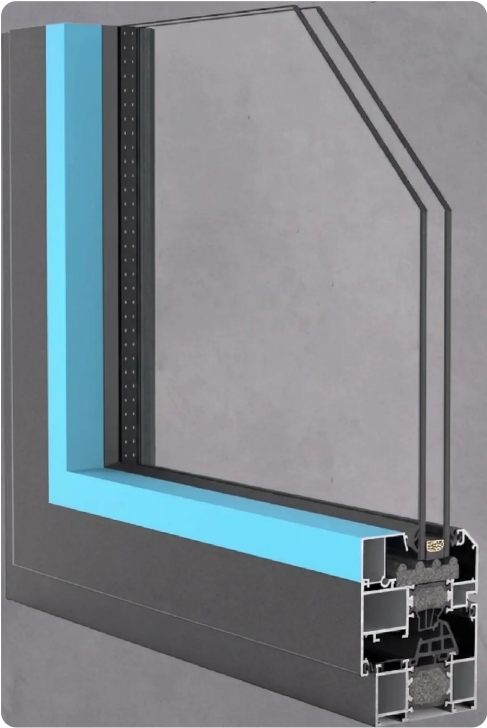
Air permeability 气密性	class 7 of 8	q_1 0.5–1.0 m ³ /(m·h) · q_2 1.5–3.0 m ³ /(m ² ·h)	■■■■■■■□
Watertightness 水密性	class 5 of 6	ΔP 500–700 Pa	■■■■■□
Wind load resistance 抗风压性能	class 9 of 9 top of the scale	$p_3 \geq 5.0$ kPa	■■■■■■■■■■
Thermal insulation 保温性能	class 7 of 10	K 1.6–2.0 W/(m ² ·K)	■■■■■■■□□□
Acoustic performance 隔声性能	class 5 of 6	Rw + Ctr 40–45 dB	■■■■■□

Classes as printed in the manufacturer's catalogue, GB scale on sheet 27 (p. 2); test report numbers behind the classes are not given in the catalogue. The kPa and W/(m²·K) units are not printed on sheet 27; they follow the GB system (HTA note).

HTA-70 TT

29 mm solid thermal break, Siegenia standard hardware

ZHONG-YAN catalogue: 70系列 内开内倒窗/内开窗 – 70 series, tilt & turn / inward casement, sheet 7



Cross-section

In the manufacturer’s words, the economy product of the range with high value for money, designed for the East China climate. A 29 mm solid PA66GF25 thermal break, 6G+20A+6G tempered glazing on a standard black aluminium spacer, 6060-T66 profile with a 1.4 mm wall. Siegenia standard hardware, manufacturer handle.

Engineering	
Alloy	6060-T66
Wall thickness	1.4 mm
Thermal break	29 mm solid strip, PA66GF25
Glazing	6G+20A+6G tempered IGU; standard black aluminium spacer, custom-made
Hardware	Siegenia standard version; manufacturer handle
Insulation	PE wave foam strip plus filling of the thermal-break cavities with the insulation used in car and refrigerator doors

Field of application

Economy class, performance for the East China climate; high value for money, wide applicability.
manufacturer’s catalogue, sheet 7

HTA recommendation: for cities with a design temperature of -30 °C or lower we select 80 TT – the only series in the range the manufacturer specifies for severe-cold regions.

GB classes

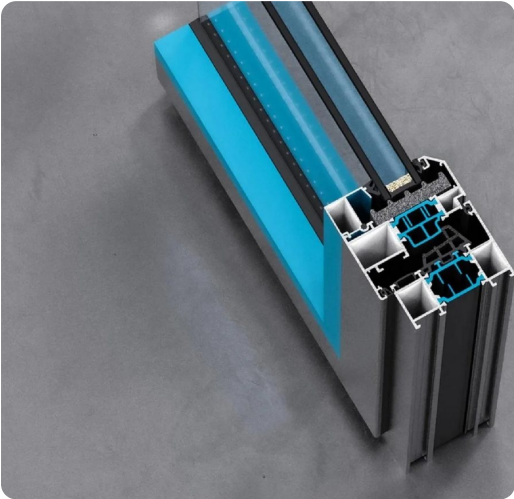
Air permeability 气密性	class 7 of 8	q_1 0.5–1.0 m³/(m·h) · q_2 1.5–3.0 m³/(m²·h)	
Watertightness 水密性	class 5 of 6	ΔP 500–700 Pa	
Wind load resistance 抗风压性能	class 9 of 9 top of the scale	$p_3 \geq 5.0$ kPa	
Thermal insulation 保温性能	class 6 of 10	K 2.0–2.5 W/(m²·K)	
Acoustic performance 隔声性能	class 3 of 6	R_w + Ctr 30–35 dB	

Classes as printed in the manufacturer’s catalogue, GB scale on sheet 27 (p. 2); test report numbers behind the classes are not given in the catalogue. The kPa and W/(m²·K) units are not printed on sheet 27; they follow the GB system (HTA note).

HTA-65 TT

34 mm finned thermal break, argon, Low-e

ZHONG-YAN catalogue: 65系列 内开内倒窗/外开窗 – 65 series, tilt & turn / outward casement, sheet 5–6



Cross-section

The manufacturer calls it a medium-performance, high value-for-money solution for China’s temperate zones and subtropics. A 34 mm finned PA66GF25 thermal break, 6G+20A+6Low-e tempered argon glazing on a Technoform spacer, 6060-T66 profile with a 1.4 mm wall. The central sash gasket moved from insert technology to vulcanised welding; corner cleats are bonded with two-component Henkel adhesive.

Engineering

Alloy	6060-T66
Wall thickness	1.4 mm
Thermal break	34 mm finned strip, PA66GF25
Glazing	6G+20A+6Low-e tempered IGU, argon; Technoform warm edge spacer
Hardware	Siegenia black, highly weather-resistant anti-corrosion; manufacturer handle as standard, Italian Frangman handle as an option
Seals	EPDM, vulcanised welding; composite: foamed and dense contour; the central sash gasket is vulcanise-welded instead of inserted
Insulation	PE wave foam strip

Field of application

Mid-temperate and warm-temperate zones and subtropics of China, excluding high plateau areas; medium performance, high value for money.
manufacturer’s catalogue, sheet 5–6

HTA recommendation: for cities with a design temperature of –30 °C or lower we select 80 TT – the only series in the range the manufacturer specifies for severe-cold regions.

GB classes

Air permeability 气密性	class 7 of 8	q_1 0.5–1.0 m³/(m·h) · q_2 1.5–3.0 m³/(m²·h)	■ ■ ■ ■ ■ ■ ■ ■
Watertightness 水密性	class 5 of 6	ΔP 500–700 Pa	■ ■ ■ ■ ■
Wind load resistance 抗风压性能	class 9 of 9 top of the scale	$p_3 \geq 5.0$ kPa	■ ■ ■ ■ ■ ■ ■ ■ ■ ■
Thermal insulation 保温性能	class 7 of 10	K 1.6–2.0 W/(m²·K)	■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■
Acoustic performance 隔声性能	class 3 of 6	$R_w + C_{tr}$ 30–35 dB	■ ■ ■ ■ ■ ■

Classes as printed in the manufacturer’s catalogue, GB scale on sheet 27 (p. 2); test report numbers behind the classes are not given in the catalogue. The kPa and W/(m²·K) units are not printed on sheet 27; they follow the GB system (HTA note).

HTA-75/85 SLIM

Ultra-narrow profile, watertightness class 6 – top of the scale

ZHONG-YAN catalogue: 75/85系列 极窄内开窗/外开窗 – 75/85 series, ultra-narrow inward / outward casement, sheet 13



Render from the manufacturer’s catalogue, sheet 13

An ultra-narrow window opening inward or outward, for buildings of minimalist design; the steel-window look suits villas. A higher glass ratio than a conventional profile; the inward sash has a drainage drip against the siphon effect; a multi-chamber closed-section profile.

GB classes

Air permeability 气密性	class 8 of 8 top of the scale	$q_1 \leq 0.5 \text{ m}^3/(\text{m}\cdot\text{h}) \cdot q_2 \leq 1.5 \text{ m}^3/(\text{m}^2\cdot\text{h})$	■ ■ ■ ■ ■ ■ ■ ■
Watertightness 水密性	class 6 of 6 top of the scale	$\Delta P \geq 700 \text{ Pa}$	■ ■ ■ ■ ■ ■
Wind load resistance 抗风压性能	class 9 of 9 top of the scale	$p_3 \geq 5.0 \text{ kPa}$	■ ■ ■ ■ ■ ■ ■ ■ ■ ■
Thermal insulation 保温性能	class 6 of 10	$K 2.0\text{--}2.5 \text{ W}/(\text{m}^2\cdot\text{K})$	■ ■ ■ ■ ■ ■ ■ ■ ■ ■
Acoustic performance 隔声性能	class 3 of 6	$R_w + C_{tr} 30\text{--}35 \text{ dB}$	■ ■ ■ ■ ■ ■

Classes as printed in the manufacturer’s catalogue, GB scale on sheet 27 (p. 2); test report numbers behind the classes are not given in the catalogue. The kPa and W/(m²·K) units are not printed on sheet 27; they follow the GB system (HTA note).

Engineering

Hardware manufacturer handle without rose as standard

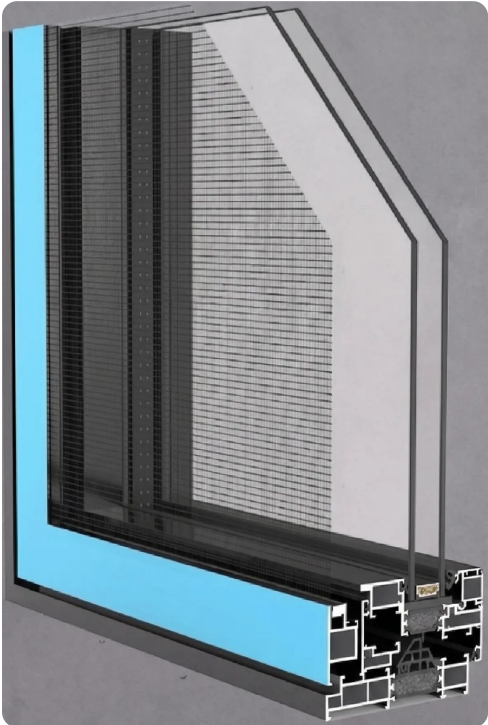
Field of application

The manufacturer names no climate. Application: buildings of minimalist design; the steel-window look suits villas in the style of old Chinese mansions, French style and similar.
manufacturer’s catalogue, sheet 13

HTA-110 OUT

Glass and insect screen in one unit, infill up to 42 mm

ZHONG-YAN catalogue: 110系列 窄边外开窗纱一体 – 110 series, narrow outward window with integrated insect screen, sheet 11–12



Cross-section

A narrow outward-opening window: glass and a high-transparency insect screen in one unit, frame and sash flush. Frame width 45 mm, mullion 95 mm; frame thermal break 40 mm, sash 34 and 30 mm; three EPDM sealing contours. Infill up to 42 mm, manual blinds inside the glazing unit available.

Engineering

Alloy	6063-T6
Wall thickness	1.8 mm
Thermal break	frame 40 · sash 34, 30 mm
Frame width	45 mm
Glazing	5mm+20A+5 manual blinds inside the glazing unit available (5+20A with blinds+5)
Max. infill thickness	42 mm
Hardware	concealed stainless-steel side handle; flush screen-sash pull
Seals	all EPDM, three contours

Field of application

The manufacturer names no climate for this series.

HTA-80 TS

The sash tilts and slides along the frame, taking no room space

ZHONG-YAN catalogue: 80系列 内倒平移窗/内开内倒窗 – 80 series, tilt & slide / tilt & turn window, sheet 9



Render from the manufacturer’s catalogue, sheet 9

In the manufacturer’s words, the tilt & slide window answers three complaints at once: sliders hold heat and sound worse, outward sashes are unsafe at height, an open tilt & turn sash takes up the room. By its account development took 20 years, and the fifth generation is now in production.

GB classes

Air permeability 气密性	class 8 of 8 top of the scale	$q_1 \leq 0.5 \text{ m}^3/(\text{m}\cdot\text{h}) \cdot q_2 \leq 1.5 \text{ m}^3/(\text{m}^2\cdot\text{h})$	■■■■■■■■■
Watertightness 水密性	class 5 of 6	$\Delta P \text{ 500–700 Pa}$	■■■■■□
Wind load resistance 抗风压性能	class 9 of 9 top of the scale	$p_3 \geq 5.0 \text{ kPa}$	■■■■■■■■■
Thermal insulation 保温性能	class 6 of 10	$K \text{ 2.0–2.5 W}/(\text{m}^2\cdot\text{K})$	■■■■■□□□□
Acoustic performance 隔声性能	class 4 of 6	$R_w + C_{tr} \text{ 35–40 dB}$	■■■■□□

Classes as printed in the manufacturer’s catalogue, GB scale on sheet 27 (p. 2); test report numbers behind the classes are not given in the catalogue. The kPa and W/(m²·K) units are not printed on sheet 27; they follow the GB system (HTA note).

Engineering

Alloy	6060-T66
Wall thickness	1.8 mm
Thermal break	20 mm multi-chamber thermal assembly, PA66GF25
Glazing	5G+20A+5Low-e tempered IGU, argon; Technoform warm edge spacer
Hardware	system hardware; manufacturer handle with rose as standard, rose-less and Frangman handles optional

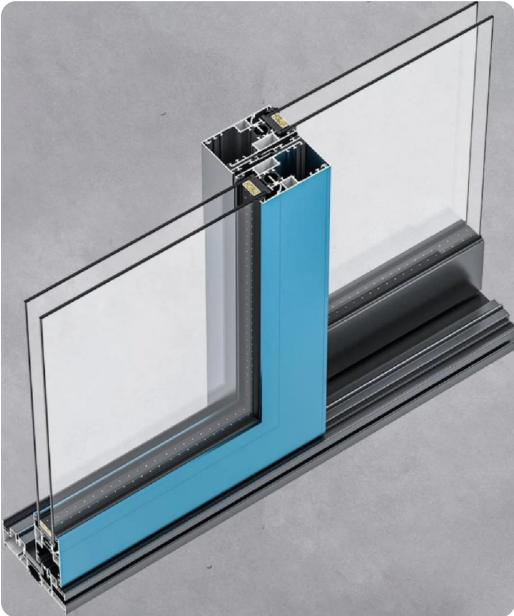
Field of application

The manufacturer names no climate for this series.

HTA-110 LS

Siegenia 150 kg lift fittings, 2.0 mm wall

ZHONG-YAN catalogue: 110系列 提升推拉门 – 110 series, lift & slide door, sheet 15



Cross-section

A lift & slide door the manufacturer specifies for all climatic conditions. 6060-T66 profile with a 2.0 mm wall, a 24 mm multi-chamber PA66GF25 thermal assembly, standard 5G+20A+5G glazing. Hardware: Siegenia 150 kg lift fittings in silver.

GB classes

Air permeability 气密性	class 6 of 8	q_1 1.0–1.5 m ³ /(m·h) · q_2 3.0–4.5 m ³ /(m ² ·h)	
Watertightness 水密性	class 5 of 6	ΔP 500–700 Pa	
Wind load resistance 抗风压性能	class 9 of 9 top of the scale	$p_3 \geq 5.0$ kPa	
Thermal insulation 保温性能	class 6 of 10	K 2.0–2.5 W/(m ² ·K)	
Acoustic performance 隔声性能	class 3 of 6	Rw + Ctr 30–35 dB	

Classes as printed in the manufacturer’s catalogue, GB scale on sheet 27 (p. 2); test report numbers behind the classes are not given in the catalogue. The kPa and W/(m²·K) units are not printed on sheet 27; they follow the GB system (HTA note).

Engineering

Alloy	6060-T66
Wall thickness	2.0 mm
Thermal break	24 mm multi-chamber thermal assembly, PA66GF25
Glazing	5G+20A+5G standard glazing
Hardware	Siegenia 150 kg lift fittings, silver

Field of application

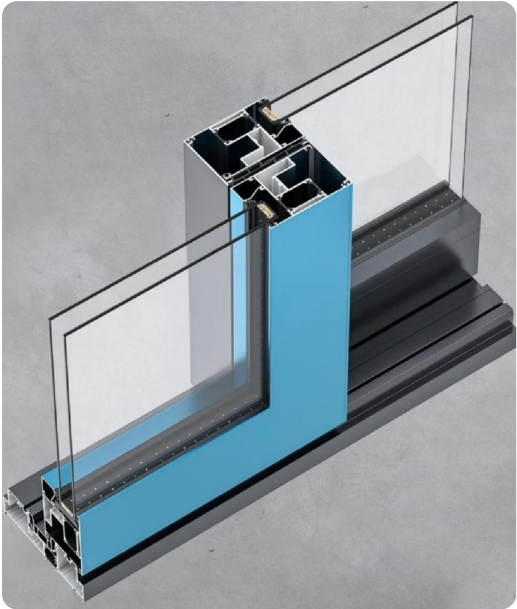
For all climatic conditions: a lift & slide system door with high airtightness, thermal and sound insulation.

manufacturer’s catalogue, sheet 15

HTA-152 LS

Sliding, lift & slide, and without a corner post

ZHONG-YAN catalogue: 152系列 提升推拉门 – 152 series, lift & slide door, sheet 17



Cross-section

A system door in three versions: sliding, lift & slide, and lift & slide without a corner post; the manufacturer specifies it for all climatic conditions. 6060-T66 profile with a 2.0 mm wall, a 24 mm multi-chamber PA66GF25 thermal assembly, standard 5G+20A+5G glazing. The manufacturer’s own hardware.

GB classes

Air permeability 气密性	class 6 of 8	q_1 1.0–1.5 m ³ /(m·h) · q_2 3.0–4.5 m ³ /(m ² ·h)	■ ■ ■ ■ ■ ■ ■ ■
Watertightness 水密性	class 5 of 6	ΔP 500–700 Pa	■ ■ ■ ■ ■ ■
Wind load resistance 抗风压性能	class 9 of 9 top of the scale	$p_3 \geq 5.0$ kPa	■ ■ ■ ■ ■ ■ ■ ■ ■ ■
Thermal insulation 保温性能	class 6 of 10	K 2.0–2.5 W/(m ² ·K)	■ ■ ■ ■ ■ ■ ■ ■ ■ ■
Acoustic performance 隔声性能	class 3 of 6	Rw + Ctr 30–35 dB	■ ■ ■ ■ ■ ■

Classes as printed in the manufacturer’s catalogue, GB scale on sheet 27 (p. 2); test report numbers behind the classes are not given in the catalogue. The kPa and W/(m²·K) units are not printed on sheet 27; they follow the GB system (HTA note).

Engineering

Alloy	6060-T66
Wall thickness	2.0 mm
Thermal break	24 mm multi-chamber thermal assembly, PA66GF25
Glazing	5G+20A+5G standard glazing
Hardware	ZHONG-YAN the manufacturer’s own hardware and handles

Field of application

For all climatic conditions: a system door in three versions – sliding, lift & slide, and lift & slide without a corner post – with high airtightness, thermal and sound insulation.
manufacturer’s catalogue, sheet 17

HTA-100 SL

Thermally broken sliding and lift & slide window

ZHONG-YAN catalogue: 100系列 隔热断桥推拉窗/提升推拉窗 – 100 series, thermally broken sliding / lift & slide window, sheet 21



Assembled product detail

A thermally broken window in two versions: sliding and lift & slide. Frame thermal break 29 mm, sash 22 mm; frame wall 1.8 mm, sash 1.5–1.8 mm; all-EPDM sealing. Infill up to 30 mm, manual blinds inside the glazing unit available; Siegenia hook locks.

Engineering

Alloy	6063-T5
Wall thickness	frame 1.8 · sash 1.5–1.8 mm
Thermal break	frame 29 · sash 22 mm
Glazing	5mm+20A+5 manual blinds inside the glazing unit available (5+20A with blinds+5)
Max. infill thickness	30 mm
Hardware	Siegenia hook locks with recessed handles
Seals	all EPDM

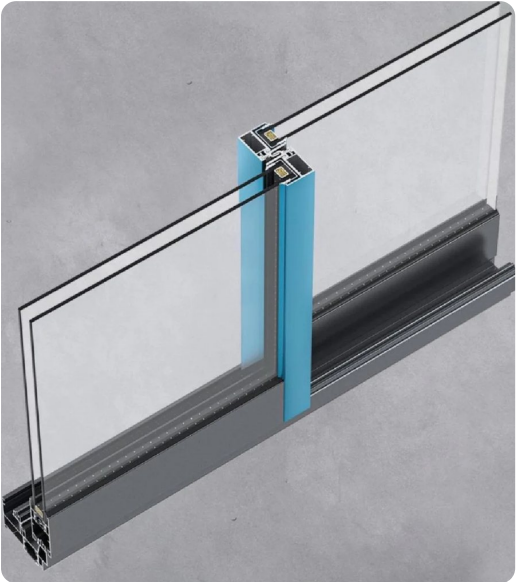
Field of application

The manufacturer names no climate for this series.

HTA-70 SL

Narrow centre mullion, concealed drainage

ZHONG-YAN catalogue: 70系列 推拉窗 – 70 series, sliding window, sheet 19



Cross-section

In the manufacturer’s words, the narrow centre mullion and concealed drainage give this sliding window good performance. A full set of German Siegenia hook locks and rollers, a 29 mm solid PA66GF25 thermal break, 5G+11A+5G tempered glazing, 6063-T5 profile with a 1.6 mm wall.

GB classes

Air permeability 气密性	class 6 of 8	q_1 1.0–1.5 m ³ /(m·h) · q_2 3.0–4.5 m ³ /(m ² ·h)	
Watertightness 水密性	class 5 of 6	ΔP 500–700 Pa	
Wind load resistance 抗风压性能	class 8 of 9	p_3 4.5–5.0 kPa	
Thermal insulation 保温性能	class 5 of 10	K 2.5–3.0 W/(m ² ·K)	
Acoustic performance 隔声性能	class 3 of 6	R_w + Ctr 30–35 dB	

Classes as printed in the manufacturer’s catalogue, GB scale on sheet 27 (p. 2); test report numbers behind the classes are not given in the catalogue. The kPa and W/(m²·K) units are not printed on sheet 27; they follow the GB system (HTA note).

Engineering

Alloy	6063-T5
Wall thickness	1.6 mm
Thermal break	29 mm solid strip, PA66GF25
Glazing	5G+11A+5G tempered IGU
Hardware	Siegenia a full set of German hook locks and rollers

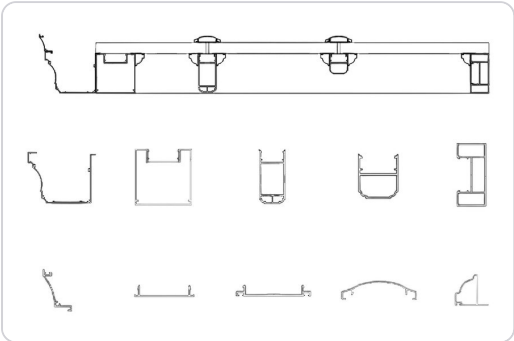
Field of application

The manufacturer names no climate for this series.

HTA-130/107 WG

Angle via the connectors – anywhere from 5° to 30°

ZHONG-YAN catalogue: 130/107系列 阳光房 – 130/107 series, winter garden, sheet 23



Profile drawings from the manufacturer’s catalogue, sheet 23

The winter garden set per the catalogue: gutter, edge, main, cross and wall beams, gutter extension, cross-beam cover, inner and outer glass pressure caps, small mounting lug. Proprietary connectors simplify assembly and lower profile-cutting requirements; the angle through the connectors is anywhere from 5° to 30°. The manufacturer states a well-designed drainage system, a continuous insulation line, multiple sealing contours and free combination with window and door systems.

Engineering

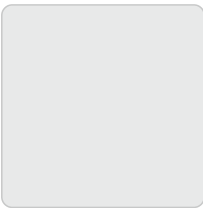
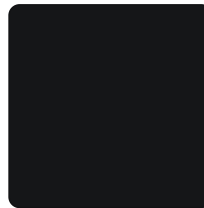
Seals multiple sealing contours

Field of application

For all climatic conditions: a winter garden with high daylighting, thermal insulation and multiple functions.
manufacturer’s catalogue, sheet 23

Six matt finishes

The colours of the range per sheets 25–26 of the manufacturer’s catalogue. JL codes are the manufacturer’s codes.

					
Matte white JL565S	Matte grey JL568S	Matte coffee JL566S	Matte green JL180S	Matte camel JL228S	Matte black JL729S

Colour in print and on screen is a guide, not colorimetry. RAL correspondence is not stated in the manufacturer’s catalogue.

How we work

From enquiry to installation – under one enquiry number.

01 Enquiry A call, WhatsApp or the website form. The enquiry gets a number.	05 Contract and prepayment A contract with a Kazakhstan LLP, payment by invoice. The order goes to the manufacturer after prepayment.
02 Series selection For the city, storeys and tasks of the project – from the manufacturer’s catalogue.	06 Manufacturing The manufacturer in China makes the systems to the specification signed by the client.
03 Survey and opening schedule We measure the openings or take the schedule from the project.	07 Delivery Shipping to Kazakhstan and import clearance, in batches to the installation schedule.
04 Commercial offer Specification and price from the schedule, line by line.	08 Installation An installation contractor under contract. The project is handed over with a completion certificate.

Contacts

Hi-Tech Aluminium Products – representative of ZHONG-YAN systems in Kazakhstan.

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Website	htalum.kz
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Legal entity	Hi-Tech Aluminium Products LLP
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For a quote, send the city, number of storeys and the opening schedule – we will select a series and prepare a specification.

About this catalogue

Compiled by HTA from the ZHONG-YAN manufacturer's catalogue «[中亚系统产品手册](#)»: every system gives its sheet. GB classes are declared by the manufacturer. The manufacturer's catalogue gives no prices or lead times – we calculate both for each project from the opening schedule.