



 **N152**
HEAVY DUTY LIFT & SLIDING DOOR

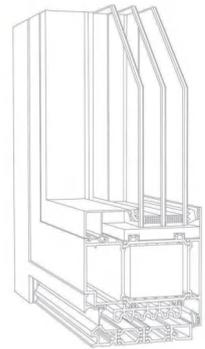
ABOUT US

As a sub-company of NorthTech Group, Beijing NorthTech Windows, which is devoted to digital technology and scientific research, is a systematic manufacturer of high-quality aluminum products, including energy-saving thermally broken aluminum windows and doors, curtain walls and so on.

Located on the east coast of China and close to the main seaports, it is one of the largest factories with an area of 35,000 square meters. Its annual production capacity is 400,000 square meters of windows and doors. It is equipped with top-class processing machines, such as imported automatic processing equipment of Anmei Bestar, online production of sawing center, CNC processing center, Belgian JOOPS design software and others, in order to meet the high precision and fast lead time requirement from high-end commercial and residential projects globally.

Our products meet and exceed the quality standards of North American NAFS, CSA, and European CE. We consistently strive to provide the finest, most energy-saving, hurricane-resistant products architecturally. With our Energy Star awarded windows and doors, customers not only get pleasant green buildings, but also get an allowance from the government of up to 8000USD.

Customer satisfaction is our objective. We sincerely invite you to experience private high-end products by sending us estimation requests.



Beijing NorthTech Windows



N152 HEAVY DUTY LIFT & SLIDING DOOR



N152 Heavy Duty Lift & Sliding Door

N152 HEAVY DUTY LIFT & SLIDING DOOR, simple atmosphere, transparent and bright, save space, silky operation, the first ray of sunlight in the morning shines in front of the door, enjoy quality life.

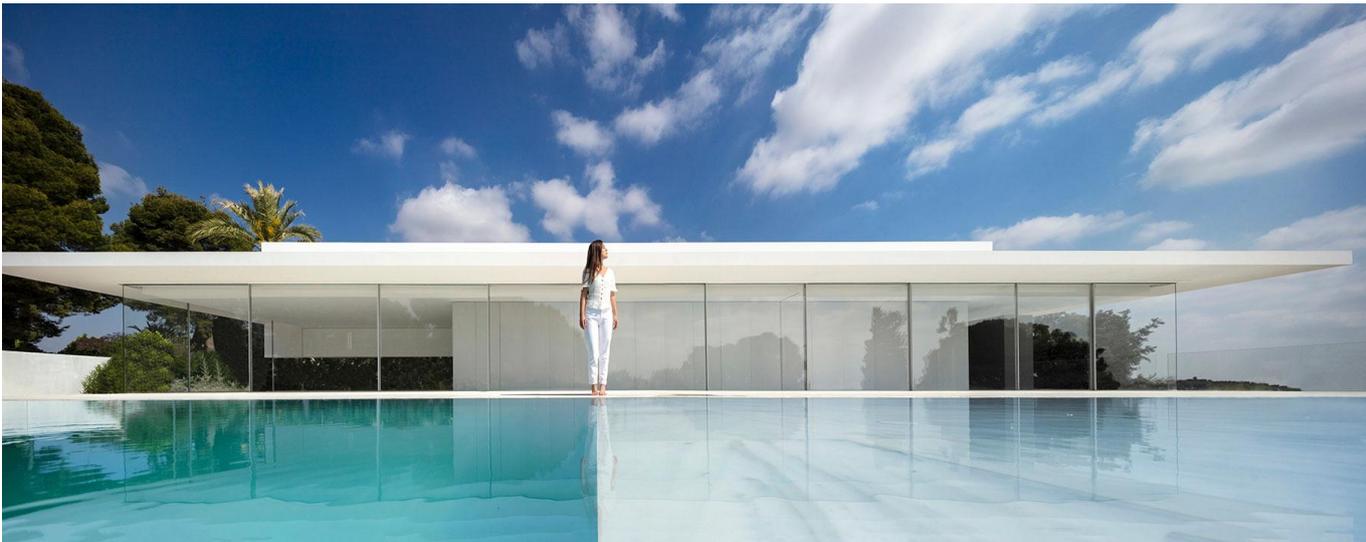
This series includes

N152 Sliding Door P06

SPECIFICATION

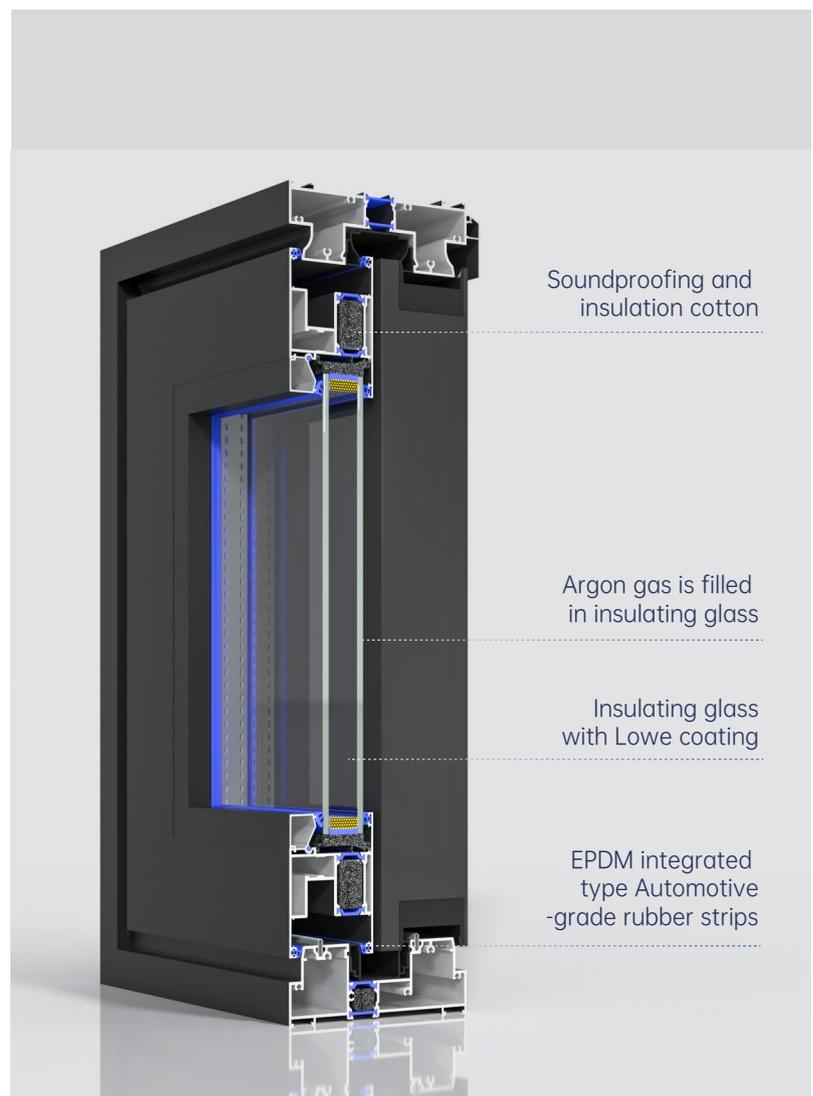
Aluminum Profile	6063-T5/6060-T66
Surface Treatment	Powder coating/ Fluorocarbon coating/ Anodizing
Profile Wall Thickness	2.2mm
Glass Configuration	Double /Triple pane glass TPS/ Warm edge spacer, Argon filling, Tempered HST
Sealing Gasket	High-quality EPDM
Frame Jamb Depth	152mm(6")
Hardware Brand	Siegenia/GU
Warm Edge Material	PA66
Max Dimension of Fixed Sash	2500mm *2600mm (98.42"*102.36")
Color	Custom colour
Drainage Option	Weep Holes
Threshold	High threshold 56mm, Low threshold 20mm
Optional	Built-in louvers/Grid view strip





SUPER SEALING DESIGN ENSURE EVERY CLOSURE

The multi-sealing rubber strip design ensures that each seal can enhance the sealing performance, effectively prevent the leakage of liquids or gases, and guarantee a stable sealing effect.



ADVANTAGE



Thermal Insulation Performance

Equilibrium line design and thermally broken insulation structure, using PA66 nylon thermal break spacers, effectively isolates energy exchange between indoor and outdoor environments, providing excellent thermal insulation and heat preservation performance.



Wind Resistance Performance

Constructed with high-strength aluminum alloy, offering superior wind pressure resistance and confidently withstanding stormy weather.



Air Tightness Performance

Triple sealing design with multiple soft and hard co-extruded sealing strips effectively ensures the proper operation of the ventilation system.



Water Tightness Performance

The combination of system injection molding technology and internal drainage principles ensures the water tightness of the entire window.



Sound Insulation Performance

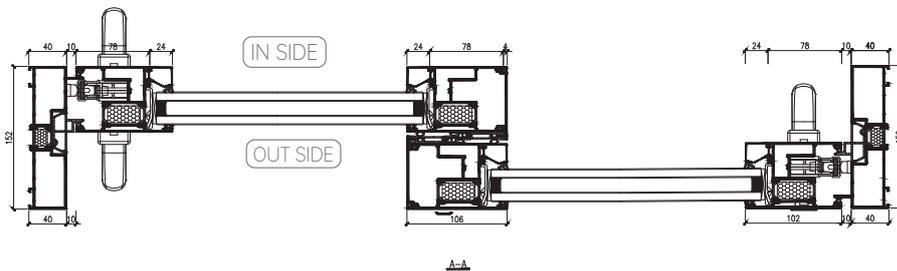
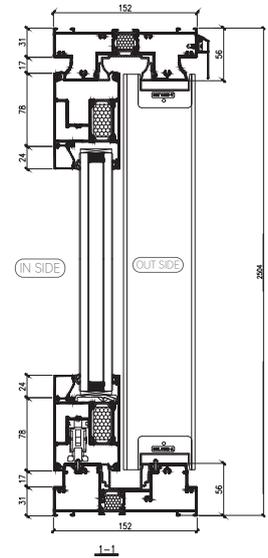
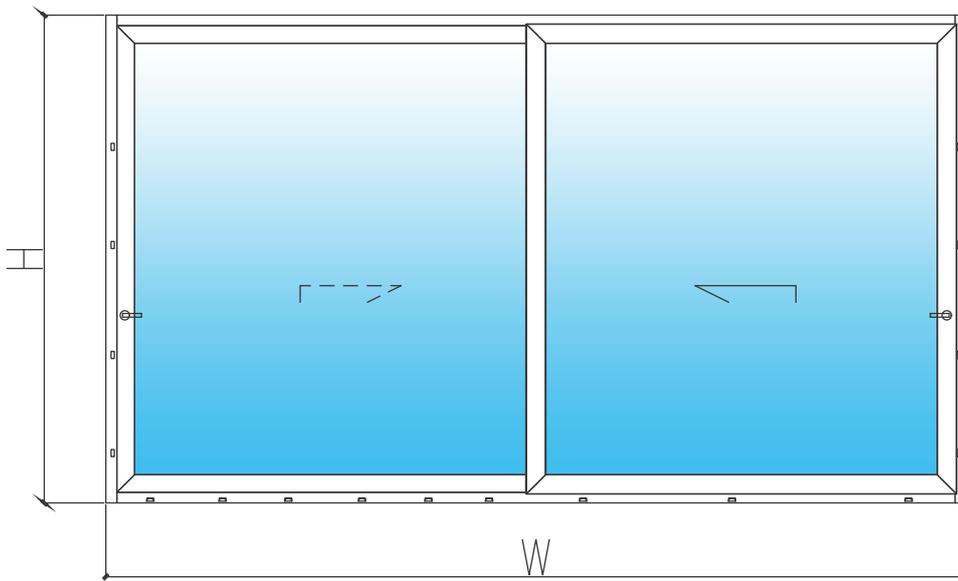
Insulated glass effectively blocks sound transmission, further enhancing noise reduction. The entire window can reduce noise levels by at least 35 dB.



Burglar-proof Performance

Multi-point locking and laminated glass design ensures stronger sealing of doors and windows, providing enhanced security and better anti-theft performance.

N152 Sliding Door



Test Description	Results
Performance Grade	CW-PG30
Water Penetration Resistance Test AAMA/WDMA/CSA101/L.S.2/A440-17, Clause 9.3.3 ASTM E547-2000 (R2016)	360Pa
Air Leakage Resistance Test AAMA/WDMA/CSA101/L.S.2/A440-17, Clause 9.3.2 ASTM E283/E283M-2019	Air leakage at +75 Pa: 0.02L/s·m ² Air leakage at -75 Pa: 0.04L/s·m ²
Uniform Load Deflection Test AAMA/WDMA/CSA101/L.S.2/A440-17, Clause 9.3.4.2 ASTM E330/E330M-2014 (R2021)	±1440 Pa
U-Factor (Btu/Hr·ft ² ·°F)	0.30

FEATURE

Meet AAMA/WDMA/CSA 101/1.S.2/A440-17 North America And Europe Standards.

Air Tightness: A3.

Water Penetration: 290Pa~720Pa.

Excellent Sound Insulation: \geq STC 37 (ASTM E413-22)
 \geq OITC 37 (ASTM E1332-22).

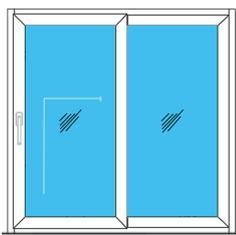
Extra Strong Metal Profile With High Quality Coatings Durable Color, No Deflection, Impact Function.

Multi-Cavities Extrusion With PA66 Insulation Strip, Thermal Insulation.

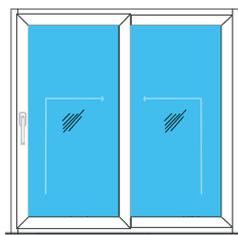
Custom Colors And Shapes.

OPENING METHOD

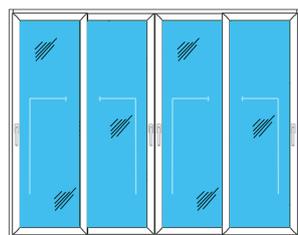
N152 Heavy Duty Lift & Sliding Door main opening methods are as follows:



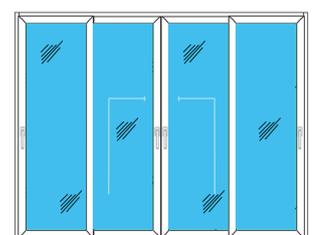
FIXED + OPEN SASH



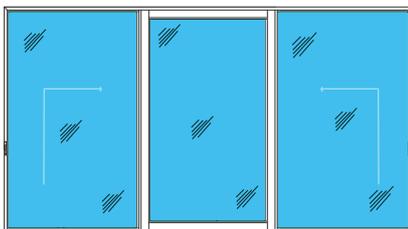
DOUBLE OPEN SASH



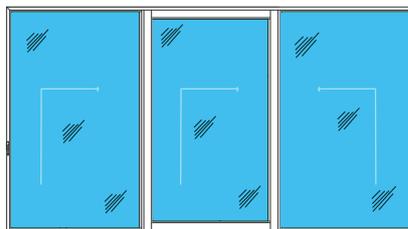
FOUR OPEN SASH



FIXED+DOUBLE SASH
PUSH-PULL+FIXED



PUSH-PULL+FIXED +PUSH-PULL

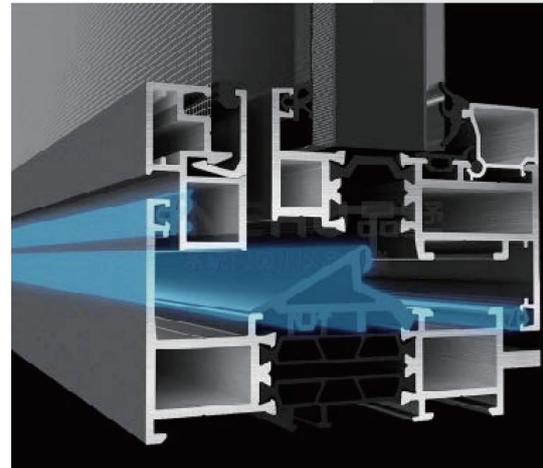


TRIPLE OPEN SASH



EPDM AUTOMOTIVE GRADE SEALANT STRIP

Made of high-quality automotive-grade EPDM rubber strip with soft-hard co-extrusion and EPDM foaming, it features anti-aging, non-deformable, strong temperature difference resistance, good elasticity, and enhanced thermal insulation and sealing performance.



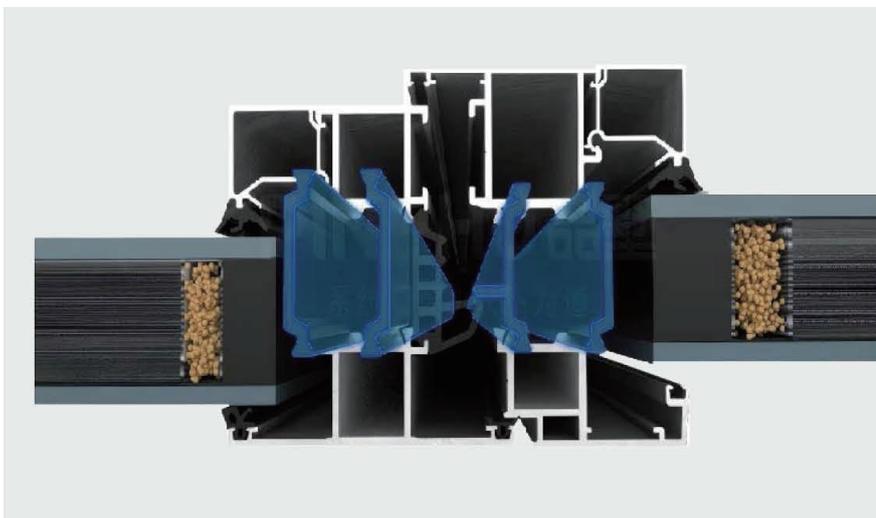
GERMAN TECHNOFORM PA66GF25 NYLON INSULATION STRIP

The German TROCO PA66GF25 nylon thermal break strip is a modified engineering plastic alloy, featuring a high melting point, excellent heat resistance, and self-extinguishing properties.

It is optimal to use an engineering plastic modified with 25% glass fiber in PA66 as the basic material for thermal break strips.

With strong aging resistance, it is durable and not prone to aging.

Its expansion coefficient is consistent with that of aluminum alloy, helping to bid farewell to summer heat and winter cold, and balancing indoor temperature through thermal insulation.



TESTING AND CERTIFICATION



intertek
Total Quality. Assured.



28 Royal Circus Crescent, Unit No. 3
Vancouver, Canada V6H 1S3
9054 888-8444 ext. 400
www.qai.org

CLIENT: Beijing North Tech Glass Co. Ltd.
#5302 - 1151 W Georgia Street
Vancouver, British Columbia

Test Report No: BUR0009-DW-c	Issue Date: May 15, 2023
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SAMPLE ID: Beijing North Tech Glass Co. Ltd. N152 Series Lift and Slide Sliding Door.

SAMPLING DETAIL: Test sample information was submitted directly to QAI for evaluation.

DATE OF RECEIPT: Documentation was received between February 13, 2023 and May 2, 2023 from Beijing North Tech Glass Co. Ltd.

TESTING PERIOD: Evaluation was conducted between May 2, 2023 and May 8, 2023.

AUTHORIZATION: Proposal 23MT01202 signed by Dong Cui on February 10, 2023.

TEST PROCEDURE: Thermal simulation evaluation was performed following the methods outlined in the following standard:

CSA A440.2-19 Fenestration Energy Performance.

TEST RESULTS: Based on evaluation conducted by QAI, energy performance values for N152 Series Lift and Slide Sliding Door are as found in the Test Results section of this report for glazing options evaluated.

Prepared By

Reviewed By

Jim Scott

Neil Dumont

Jim Scott
Project Manager

Neil Dumont
Fenestration Reviewer

Signed for and on behalf of QAI Laboratories, Ltd.

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WWW.QAI.ORG
info@qai.org

Beijing North Tech Group Ltd.

TEST REPORT

SCOPE OF WORK
N152 Heavy Duty Lift & Sliding Door

REPORT NUMBER
211290115HF-006

TEST DATE(S)
2022-08-30 - 2022-09-31

ISSUE DATE
2023-11-30

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20

DOCUMENT CONTROL NUMBER
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Intertek Testing Services Shenzhen Ltd, Shanghai Fengxian Branch



Verification of Conformity

Windows and doors – Product standard, performance characteristics – Part 1: Windows and external pedestrian doorsets
EN 14351-1:2006+A2:2016
(For details is referred to the initial type testing report: 89223809-01)

The product in the configuration: **Sliding Door (152series)**, manufactured by Beijing North Tech Windows Co. Ltd. was submitted by the manufacturer for Initial Type Testing refer to clause 4.2, 4.5, and 4.14 of the above-mentioned European standard. The results showed compliance with the applicable requirements. The test results and the content of this Verification of Conformity exclusively related to the tested samples. The results:

Test parameter	Result
Resistance to Wind Load	Class 5C
Water Tightness	Class 6A
Air Permeability	Class 3

Company Name Beijing North Tech Windows Co., Ltd.
Address No. 2000000 Road, Daxiangmen, Kichang District, Beijing, China

Production location Name Beijing North Tech Windows Co., Ltd.
Address No. 2000000 Road, Daxiangmen, Kichang District, Beijing, China

Product Sliding Door
Model: 152 series

TÜV Rheinland (Shanghai) Co., Ltd.
No. 177, Lane 777, West Guangzhong Road,
Jing'an District, Shanghai 200072,
P.R.China

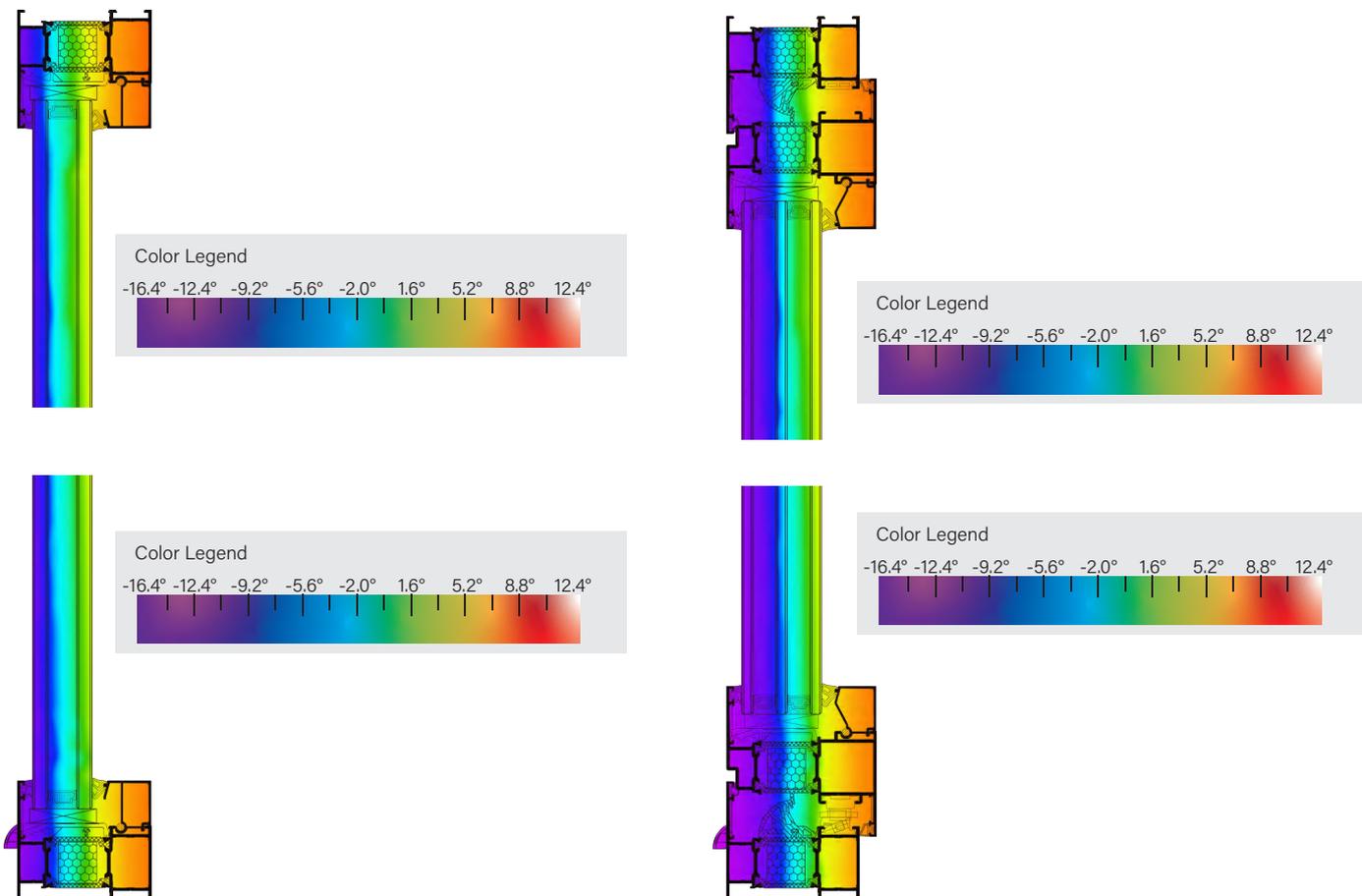


Alex Gu

Shanghai, 15 February 2024

Alex Gu
Laboratory Manager, Infrastructure & Project Supervision

THERMAL ENGINEERING SCHEMATIC DIAGRAM



LABEL SAMPLE

1. Product and Glass Information

You will find a frame type, glass coating, and type of gas that fill the cavities between the glass panes; all contribute to the overall energy efficiency of the window.

2. U-Factor

This number represents the heat transfer coefficient, or how much heat the windows coatings keep inside the home. U-factor ranges from 0.2 to 1.2. **The lower the number, the more heat the product is keeping in.**

3. Solar Heat Gain Coefficient

This number measures how well a product can resist unwanted heat gain, which is especially important during summer cooling season. **The lower the number, the less you'll spend on cooling.** If you live in a hot, sunny climate, you will want a low number. If you live in a balanced climate with cold winters and warm summers, you'll want a rating of around 0.3.

4. Visible Transmittance (VT)

This is how much visible light will come in through the window during daytime. The range is from 0 to 1. **The higher the number, the more visible light passes through.** Clear glass without any coating has the highest VT rating. Coatings added to improve energy efficiency can sacrifice some visible light.

5. Air Leakage

This indicates the amount of outside air that will come through, according to the NFRC's testing. **The lower the number, the better.**

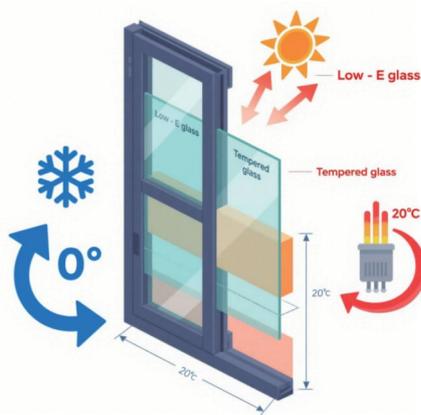
6. Condensation Resistance

Not every label will carry this optional rating. If you live in a humid climate or are concerned with mold growth, you may want to look at the condensation resistance rating. **The higher the number, the better the window is at resisting condensation** on a scale of 1-100.

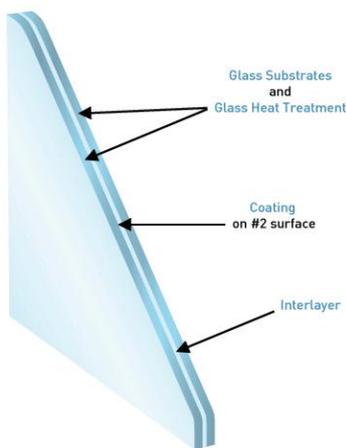
DO NOT REMOVE UNTIL FINAL INSPECTION / NE PAS RETIRER AVANT L'INSPECTION FINALE		
ENERGY PERFORMANCE RATINGS Évaluation des propriétés énergétiques		
U-factor Facteur-U	Solar Heat Gain Coefficient Coefficient de gain de chaleur solaire	Visual Transmittance Transmission visible
Energy Rating Rendement énergétique	Test Standard Edition Édition de la norme d'essai	
 <p>Thermal performance and visual transmittance ratings certified to CSA A440.2. Ratings are determined for a fixed set of environmental conditions and a specific product. Certification agency does not recommend or warrant product for any specific use.</p> <p>Les taux de performance thermique et de transmission visible sont certifiés CSA A440.2. Les taux sont déterminés selon une série de conditions environnementales fixes et une taille de produit particulière. L'agence de certification ne recommande ni ne garantit le produit aux fins d'utilisation particulière.</p>		

GLASS

Glass plays a crucial role in windows and doors, providing optimal light transmittance, energy savings, and soundproofing function. North Tech uses energy-efficient low-e tempered glass with various configurations to achieve the best results for commercial and residential buildings, ensuring safety, high performance, and durability.



Glass Substrate: Clear, Low iron, Grey, Blue
 Low e: Solarban 70, Solarban 60 etc.
 Treatment: Tempered HST, Heat Strengthened
 Spacer: Superspacer, Warm Edge, 4SG
 Filling: Argon 90%
 Burglarproof: Optional
 Grids and Blinds: Optional



1" VRE1-54 Insulating
 1/4" (6mm) clear with VRE-54 #2
 1/2" (13.2mm) airspace
 1/4" (6mm) clear



VLT 47%
 Winter u-value 0.30
 Summer u-value 0.27
 SHGC 0.31

1" VRE1-54 Triple Insulating
 1/8" (3mm) clear with VRE-54 #2
 5/16" (7.5mm) airspace
 1/8" (3mm) clear
 5/16" (7.5mm) airspace
 1/8" (3mm) clear



VLT 44%
 Winter u-value 0.27
 Summer u-value 0.29
 SHGC 0.29

1-3/4" VRE1-54 Triple Insulating
 1/4" (6mm) clear with VRE-54 #2
 1/2" (13.2mm) airspace
 1/4" (6mm) clear
 1/2" (13.2mm) airspace
 1/4" (6mm) clear



VLT 42%
 Winter u-value 0.22
 Summer u-value 0.22
 SHGC 0.28

Glass Partners



HARDWARE

Door and window hardware are the "silent guardians" of the home — Hinges hide the gentle tacit understanding in opening and closing, handles hold safety and convenience, and lock cores strictly guard every inch of private time.



Hardware Partners



COATING

Aluminum Profile Surface Treatment and Colors

The company provides custom aluminum surface coatings according to samples or RAL color standards.

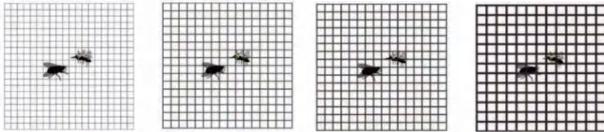


Coating Partners

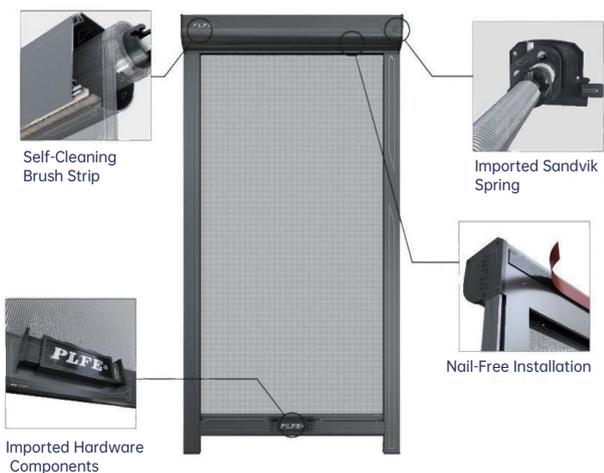


INSECT SCREEN

Screens are not barriers to scenery, but filters for life — With their delicate meshes, they filter out the hustle and bustle, leaving behind pure light and wind. They give homes the armor to fend off the outside world while preserving the tenderness to embrace it.



Stainless Steel Screen & Retractable Screen



INSTALLATION METHOD



With Installation Chips



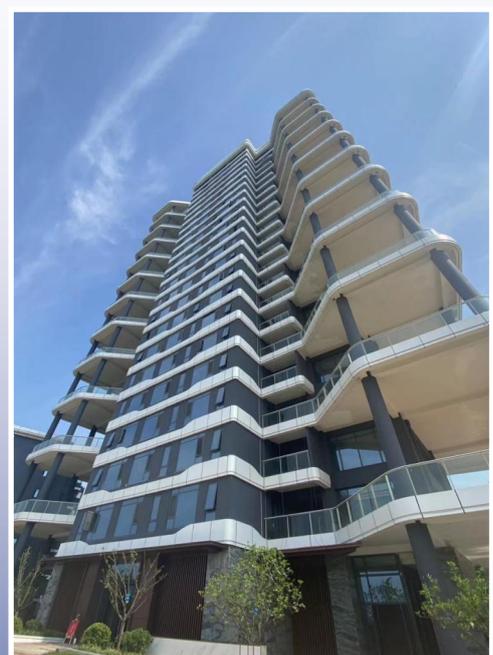
Screwing Connection



Nail Flange

Notes: Due to varying requirements in each country, province, and project, this document is for reference only. The actual specifications shall be based on the contract and signed drawings of each individual project.

SUCCESSFUL PROJECTS





SUCCESSFUL PROJECTS



CONTACT

Beijing NorthTech Windows Co., Ltd.

Tel: +1 7788018069/+86 13811102361

E-mail: dcui@northtechwindowscn.com

www.northtechwindowscn.com

Tips:

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