TILTCO
Architectural

System Overview

M-Series

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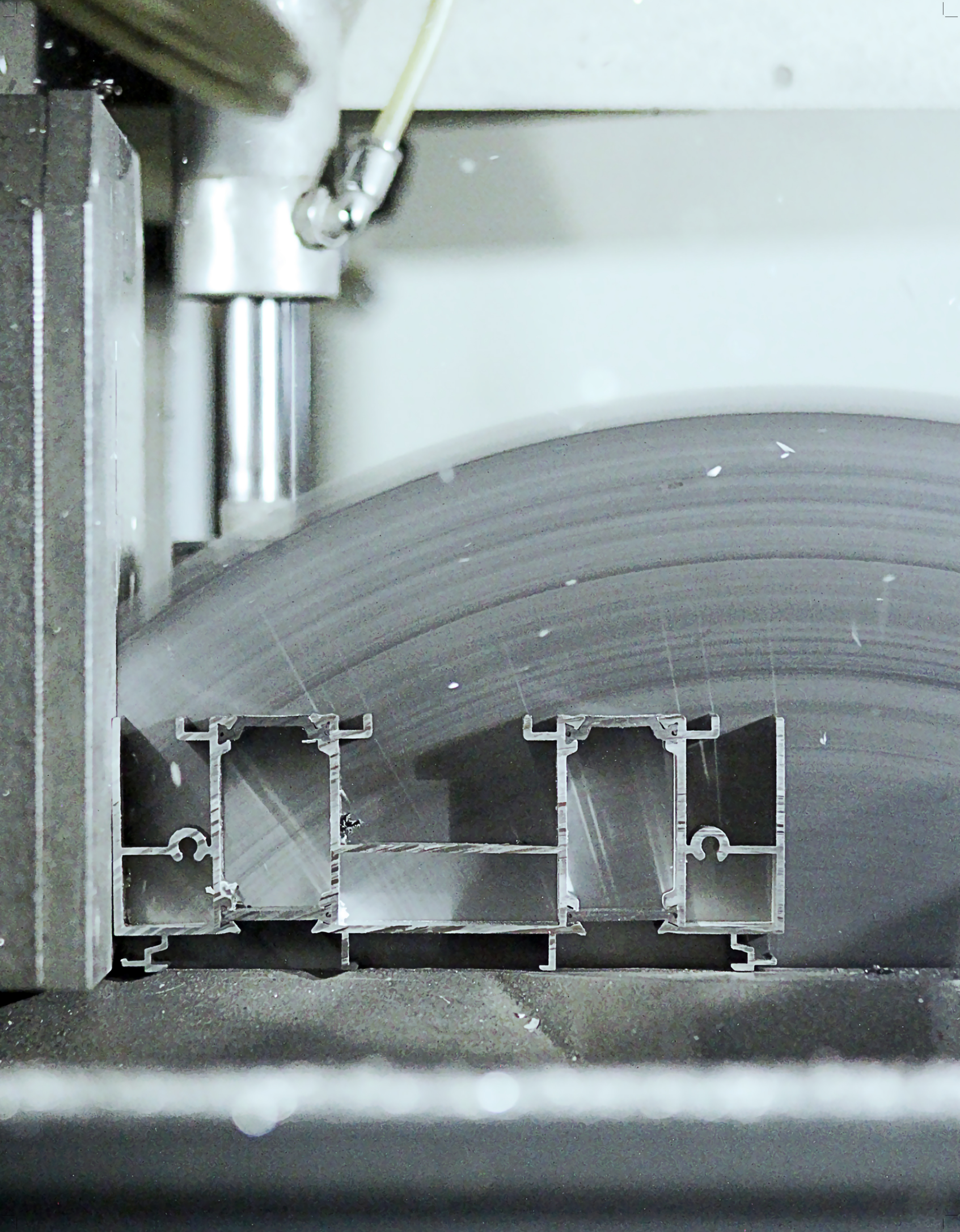


Tiltco provides unparalleled dedication to fabricating exceptional European glazing systems. Working alongside architects, builders, designers and homeowners, Tiltco designs, manufactures and installs prestigious fenestration products. Our superior designs, polished performance and impeccable service, create luxury glazing solutions worthy of the finest residential, commercial and coastal properties.

FRAME OF MIND.

TILTCO ARCHITECTURAL.

A 82

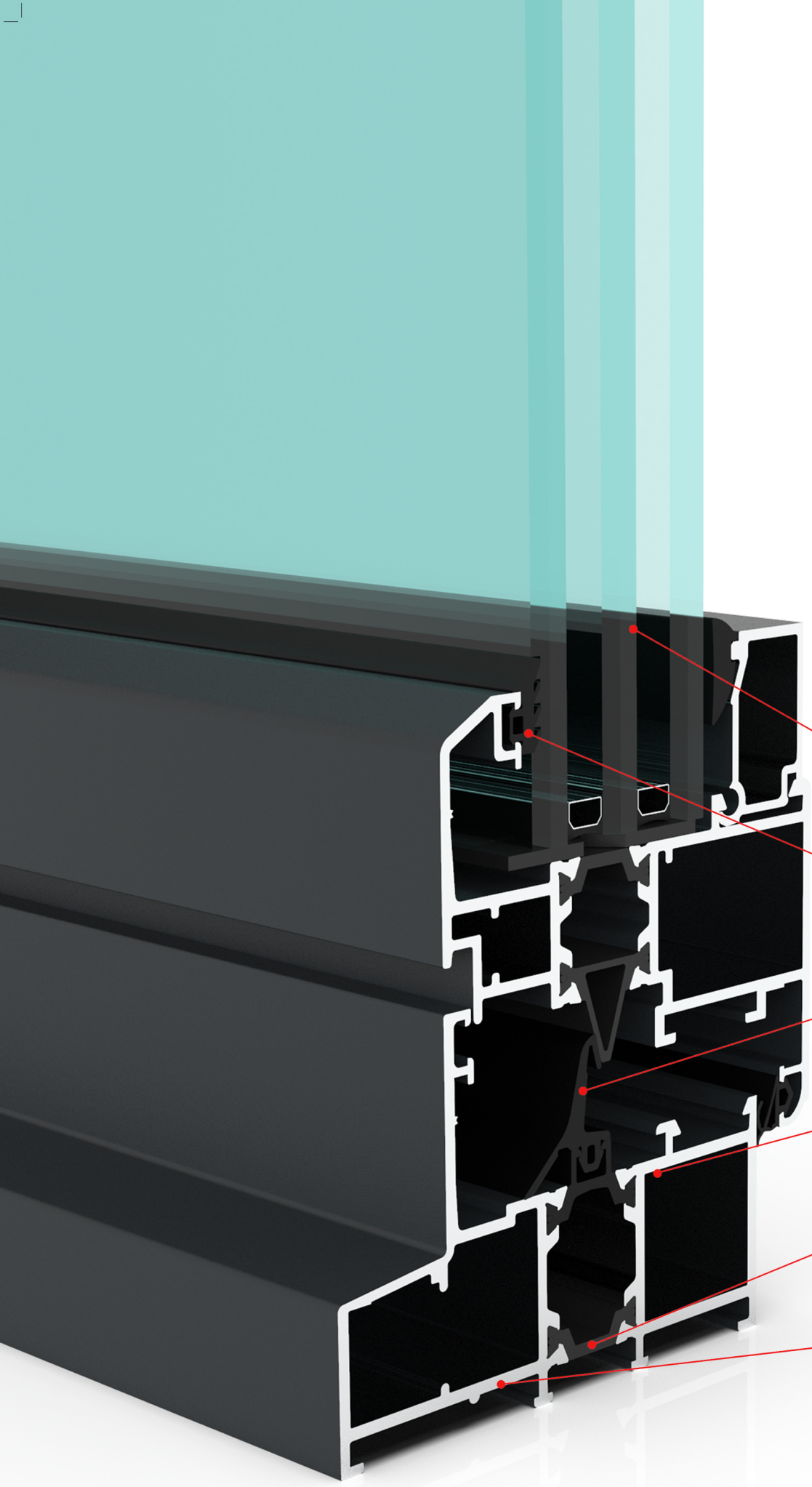
System Overview: Tilt & Turn Window

See through elegance; Designed with aesthetic value in mind, the A 82 is the perfect solution for modern design.

Experience ultimate design freedom with Tiltco's value-engineered thermally broken aluminum A 82 window & door series. This triple sealed system, which combines elegance and comfort, is the perfect solution for the most luxurious of residential and commercial projects. Core features include a 3 chamber design and a glazing pocket that accommodates for both double and triple pane glass for increased thermal, acoustic, safety and performance.

Structurally, the alloy and polyamide materials used within the profile boast incredible strength and durability alloying for oversized fixed and operable vents to be designed and opened effortlessly. In combination with its high-performing insulation capabilities, the system provides the perfect harmony between durable material, timeless design and demanding architectural challenges.

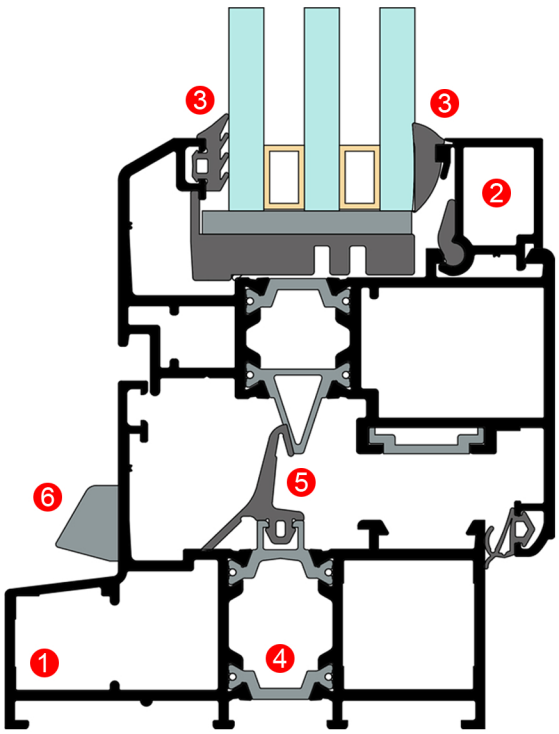
Affiliated Associations:


Glazing depth allows for glass thickness up to 38 mm (1 1/2")
Ergonomically designed EPDM gaskets
EPDM high performing main gasket seal
Frame depth of 82 mm (3 1/4")
Thermally engineered polyamide barrier
6063-T5 aluminum alloy frame

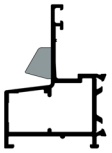
A 82

Design Features: Tilt & Turn Window

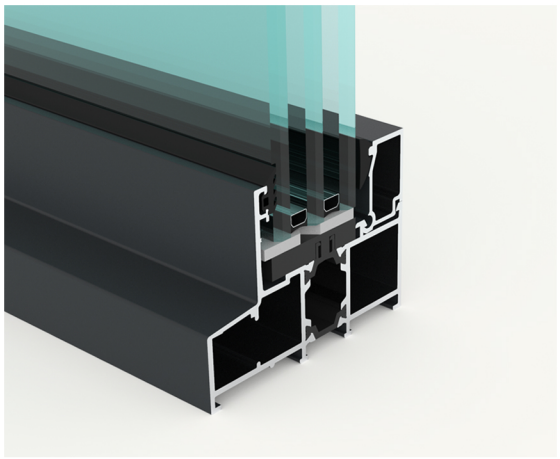
For the designer; The fine details; We understand you need them.

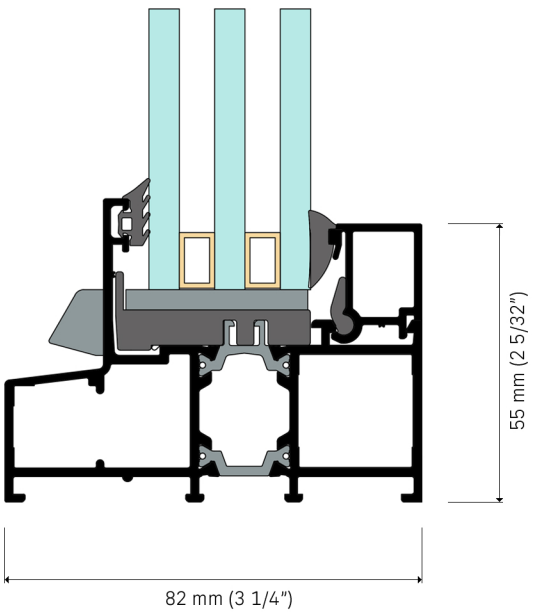


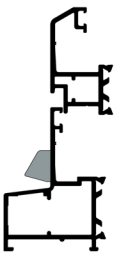
1. Frame depth 82mm (3 1/4”).
2. Glazing depth up tp 38mm (1 1/2”).
3. Weather striping: EPDM gaskets.
4. Specially designed thermal barrier.
5. EPDM center seal gasket.
6. Rain screen design.



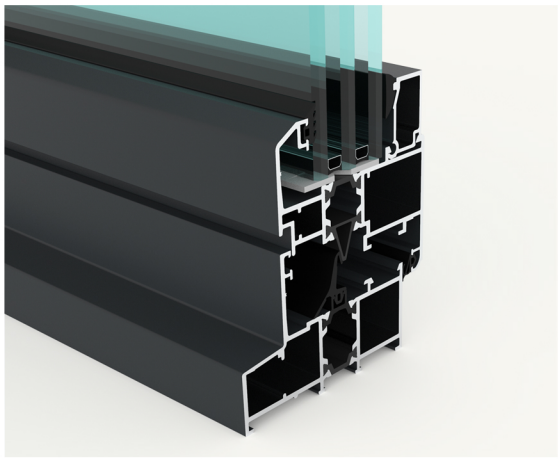
Fixed Window

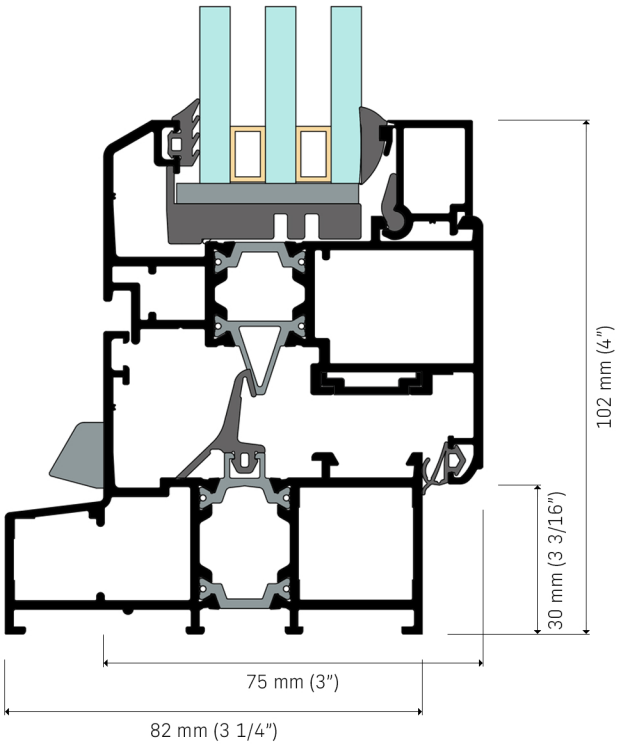


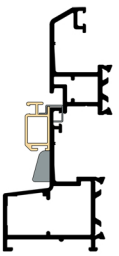




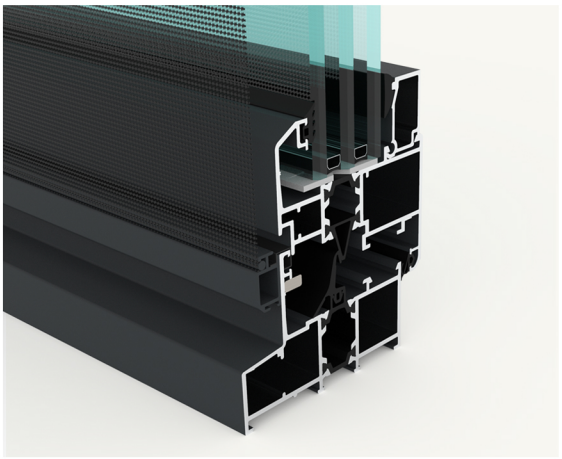
Tilt & Turn Window

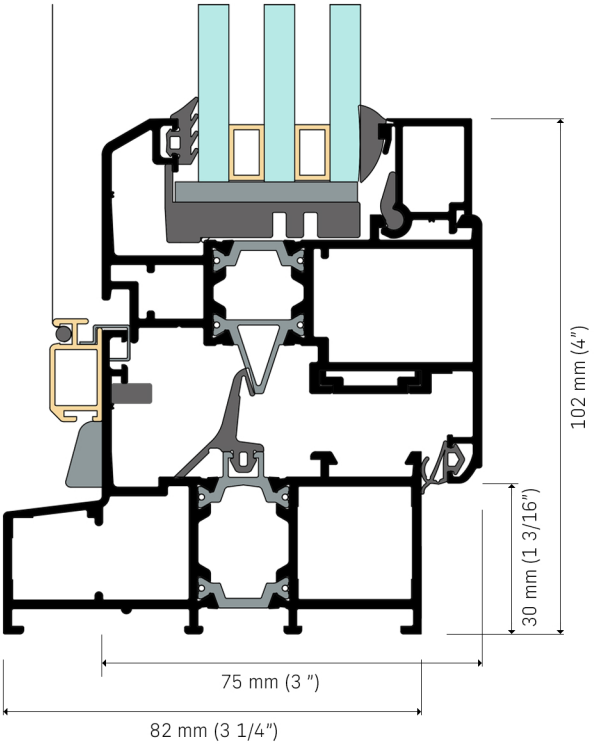






Tilt & Turn Window with Insect Screen





PROJECTS:

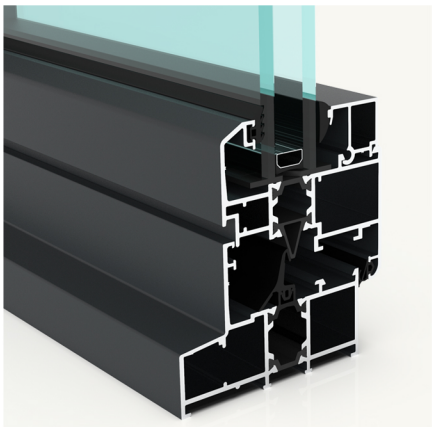
Treow Brycg

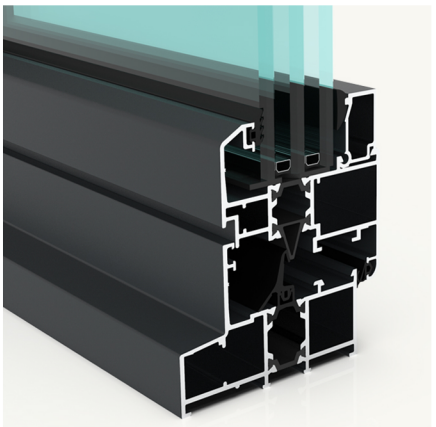
LOCATION: Kingsburg, Nova Scotia.
DESIGN: Omar Gandhi
PHOTOGRAPHY: Ema Peter

A 82 Window

System & Performance

The A82 system is an aesthetic yet sustainable system that utilizes a 3-chamber design, triple seal technology and a multipoint locking system for increased thermal performance, durability and security. Profiles are extruded and thermally broken by means of two continuous polyamide bars 18mm wide. The aluminum alloy is 6063-T5 in accordance with Aluminum Association standards.

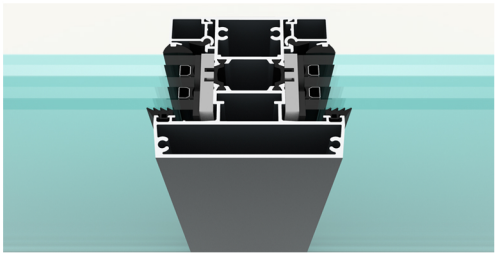




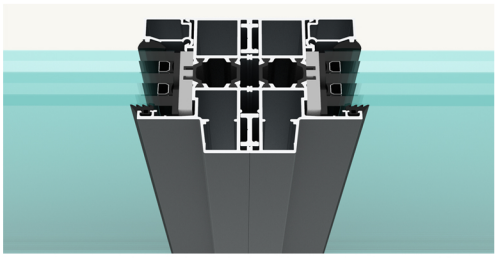
Double glazed unit		Triple glazed unit	
U-factor	0.34	U-factor	0.27
Shgc	0.27	Shgc	0.24
Vt	0.47	Vt	0.41
Condensation Resistance	44	Condensation Resistance	52
Primary Product Designator			class aw - pg80
Design Pressure			±3840 Pa (±80.00 psf)
Air Infiltration			0.3 L/s/m² (0.05 cfm/ft²)
Acoustic Performance (with Rw per IGU 45 dB)			up to 48 dB
Air Infiltration/Exfiltration			A3
Water penetration resistance test pressure			960 Pa (20 psf)

ref: daw window (size tested 1502 x 2502 mm) csa a440s1-09, canadian supplemen to AAMA/WDMA/CSA 101/I.S.2/ A440 NAFS ref: thermal testing glass a82 : sn68 / arg90 / is20 (6mm/6mm) -1" "IG", a 82 : sn68 / arg90 / clr / arg90 / neutral 78/65 (6mm/6mm/6mm) - 2- 1/8" "IG"

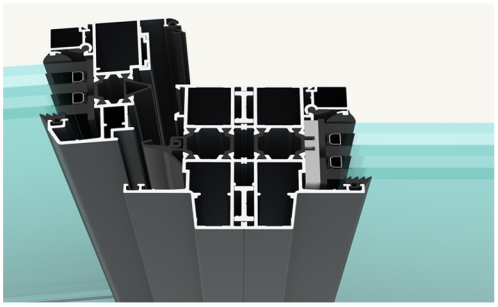
Mullions, Transoms & 90° SSG corners



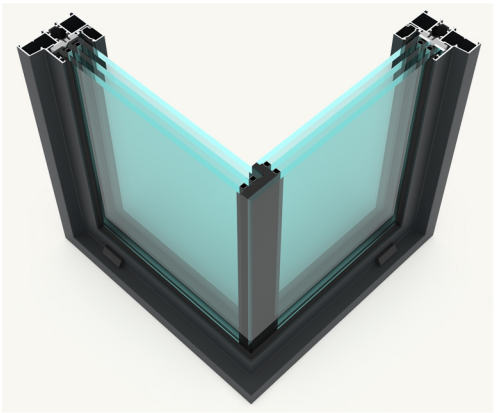
A82 Mullion / Transom can considerably enhance a window element's design as well as adding structural glazing support.



A82 Fixed Connection Tiltco's uniquely designed connection system allows incredible structural integrity whilst keeping an aesthetic, minimal sightline.



A82 Tilt & Turn to Fixed Connection



Structural Silicone Glazed (SSG) corners yield a bespoke fenestration substitute for standard corner wall construction.

Colours

Ral # 9005
Black

Ral # 7021
Black Grey

Ral # 7016
Anthracite Grey

Clear Anodized

Handles

Berlin

Amsterdam

Paris

Handle Colours

Black Matte

Stainless Steel

Bronze *

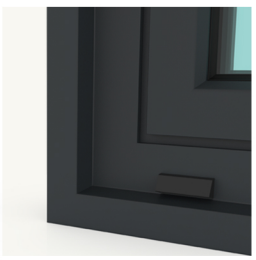
Copper *

Gold *

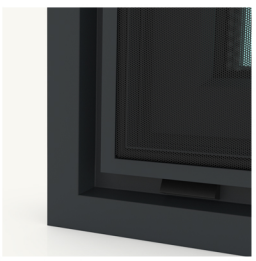
* Custom, colour consult your representative

Design

Fixed



Tilt & Turn



Tilt & Turn screen

Corner joinery are fitted with perfect alignment using die-cast aluminum corner-cleats by plugging-crimping and are carefully sealed using epoxy & adhesive before final assembly.

Flush mounted Insect screens utilize dual neodymium magnet technology for easy removal and attachment.

Accessories

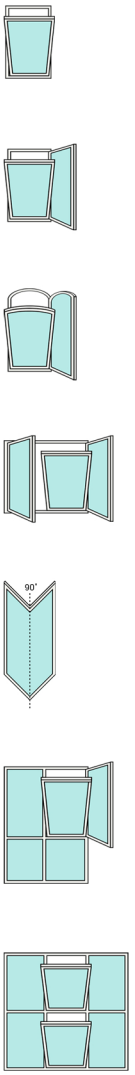
Standard Hinge

Sdl Grille

Heavy-duty hinges are fabricated from extruded aluminum with a stainless steel hinge shaft.

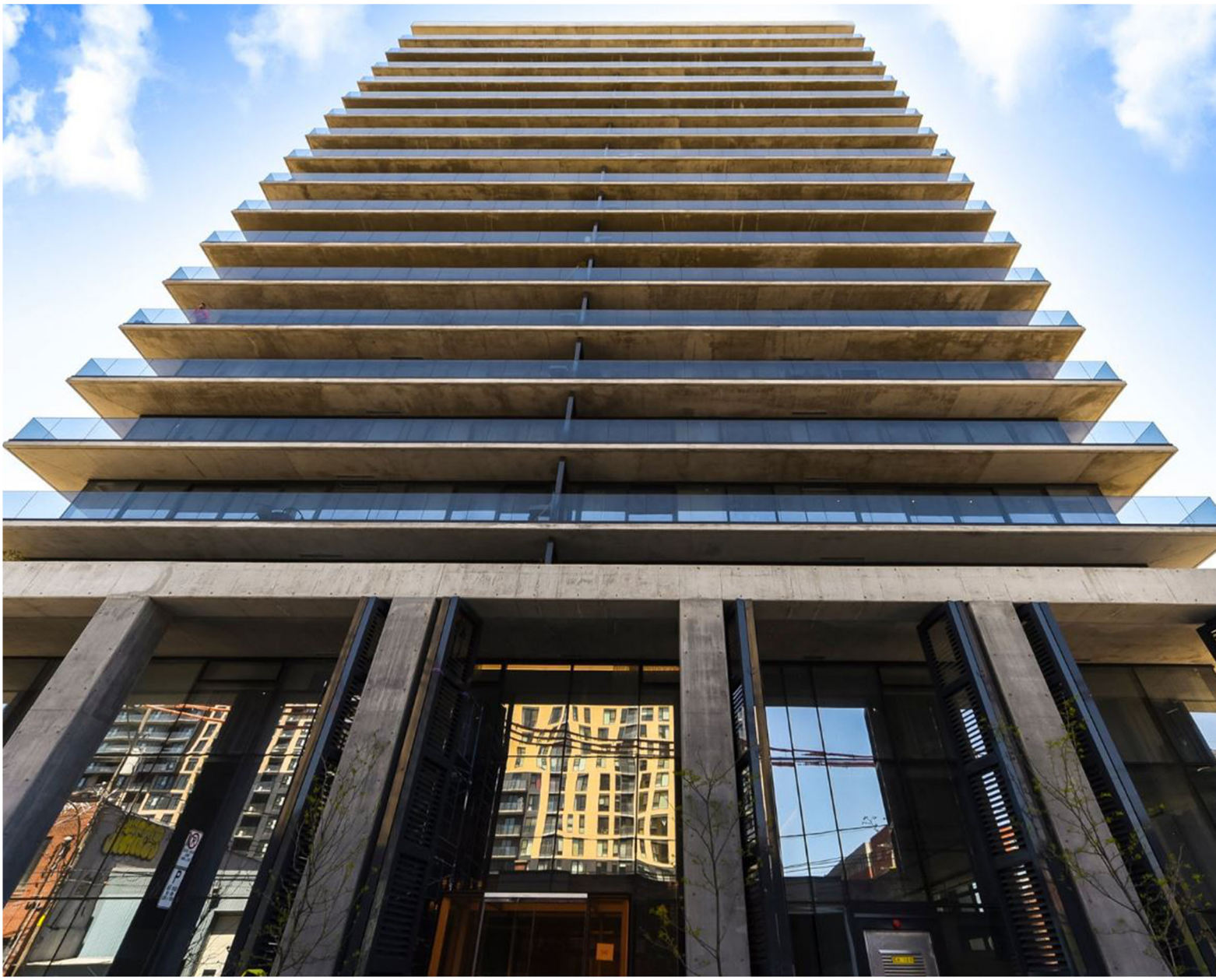
Simulated Divided Lite (SDL) grills are a popular decorative solution which creates a beautiful timeless appearance and considerably increases curb appeal. Designs are fully customizable to your specifications and are carefully hand-cut and adhered to the glass with the utmost precision and accuracy.

Configurations

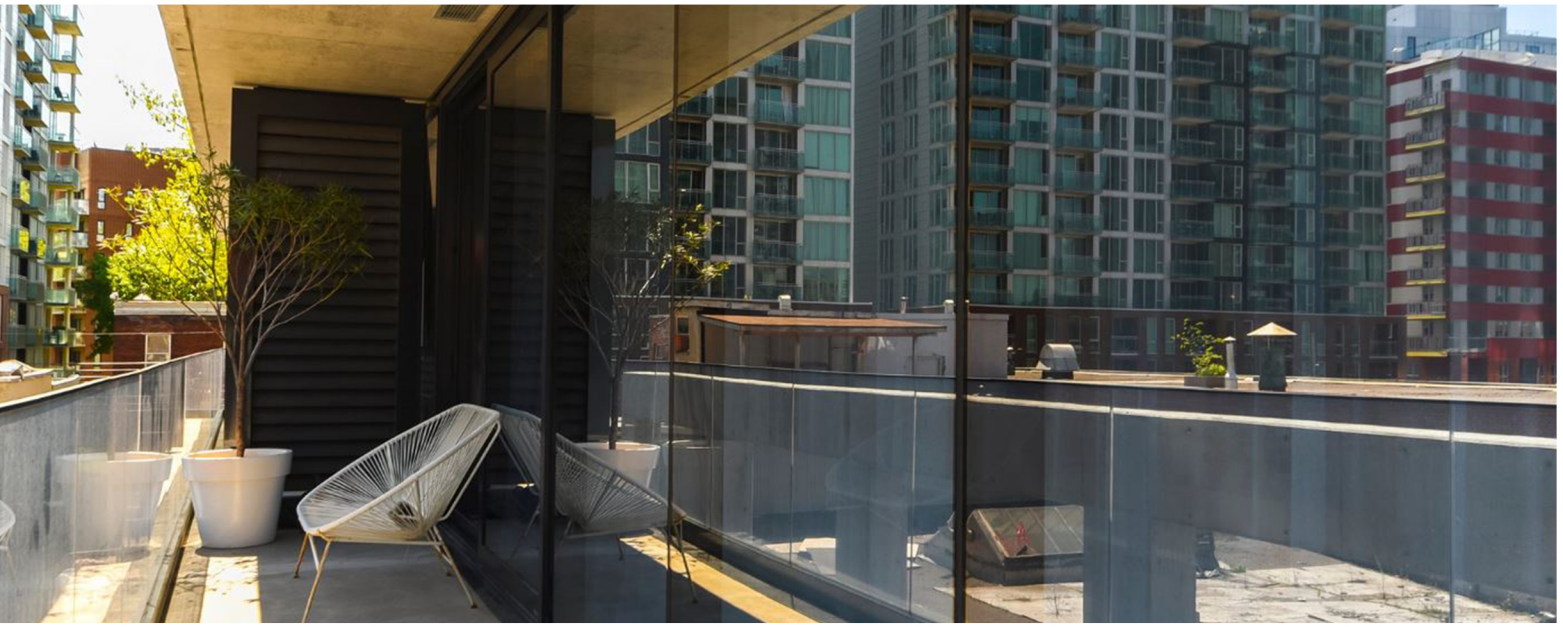


PROJECTS:

Yoo tower

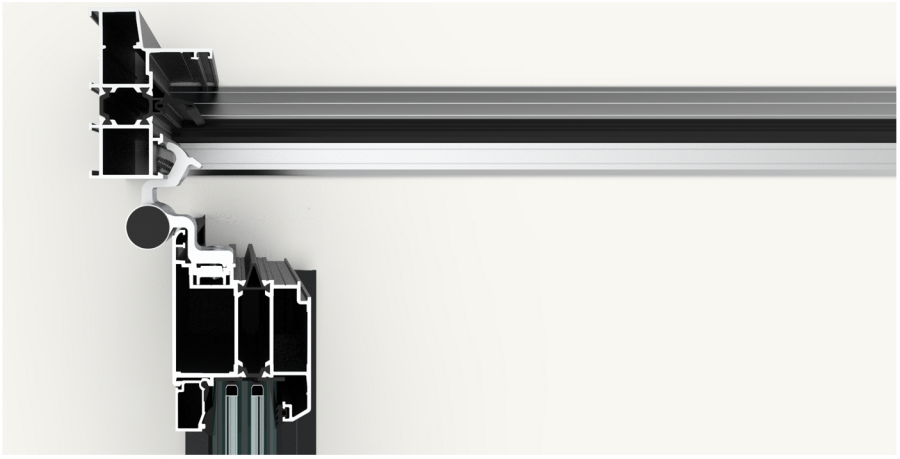


LOCATION: Montreal, Quebec.
DESIGN: Philippe Starck

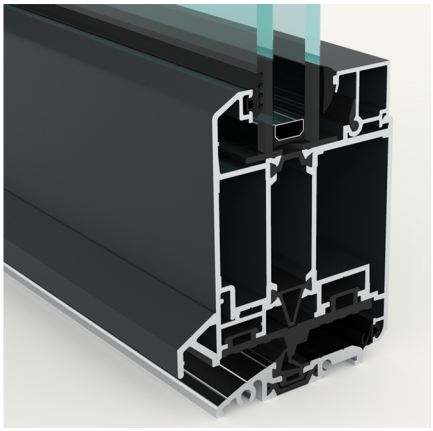


A82 Door

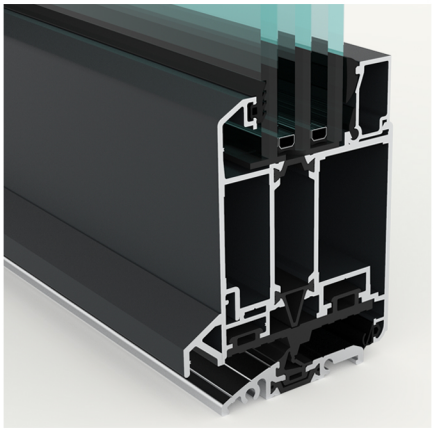
System & Performance



A82 doors are designed with strength, durability and longevity at top of mind. Heavy-duty hinges coupled along with a corrosion resistant, made-to-last gearing system allow for large size openings in dual and triple temperared glazing with unrivaled security.



Double glazed unit



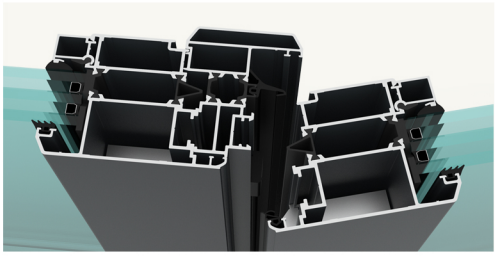
Triple glazed unit

U-factor	0.34	U-factor	0.27
Shgc	0.27	Shgc	0.24
Vt	0.47	Vt	0.41
Condensation Resistance	44	Condensation Resistance	52
Primary Product Designator			class aw - pg75
Design Pressure			±3600 Pa (±75.00 psf)
Air Infiltration			0.3 L/s/m² (0.05 cfm/ft²)
Acoustic Performance (with Rw per IGU 45 dB)			up to 48 dB
Air Infiltration/Exfiltration			A3
Water penetration resistance test pressure			750 Pa (15.00 psf)

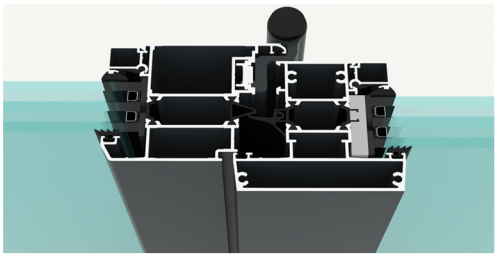
ref: SD swing door (size tested 1201 x 2432 mm) csa a440s1-09, canadian supplemen to AAMA/WDMA/CSA 101/I.S.2/ A440 NAFS

Connections & Sill options

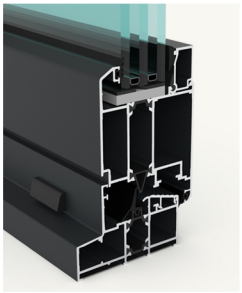
French Connection (Closed)



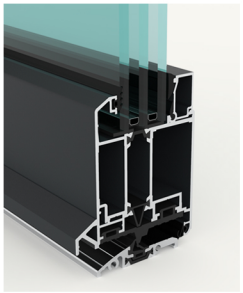
French Connection (Open)



Door with Sidelight Connection



Standard sill option



ADA sill option

Swing doors are available with standard threshold options for higher performance, as well as ADA compliant. All threshold options come thermally broken and are engineered to produce an incredibly tight sealing system. Without it, your doors will not have the necessary defense system against tough climates such as extremely cold winters, oceanfront properties or high rise buildings. Thankfully, we've optimized our sills to provide a superior protection against air, water and noise. Our sills are one continuous seal that is designed to remain in contact under all environmental conditions.

Colour

Ral # 9005
Black

Ral # 7021
Black Grey

Ral # 7016
Anthracite Grey

Clear Anodized

Powder coating is widely considered to be the ideal method for protecting aluminum profiles and parts. By electrostatically spraying and fusing the mixture of pigments and resins onto a surface, you can achieve a high -quality, durable finish that will extend the life of the metal and ensure its continued aesthetics.

for custom colours, consult your sales representative

Handles

Berlin

Amsterdam

Paris

Handle Colours

Black Matte

Stainless Steel

Bronze *

Copper *

Gold *

* custom colour. consult your representative

Design

Standard Sill

Ada Sill

Corner joinery are fitted with perfect alignment using die-cast aluminum corner-cleats by plugging-crimping and are carefully sealed using epoxy & adhesive before final assembly. ADA threshold are securely fastened using mechanical methods.

Accessories

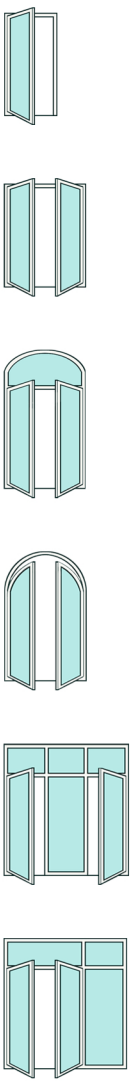
Standard Hinge

Sdl

Heavy-duty hinges are fabricated from extruded aluminum with a stainless steel hinge shaft.

Simulated Divided Lite (SDL) grills are a popular decorative solution which creates a beautiful timeless appearance and considerably increases curb appeal. Designs are fully customizable to your specifications and are carefully hand-cut and adhered to the glass with the utmost precision and accuracy.

Configurations



With the largest range of materials, sizes, styles and features in the industry, Tiltco will facilitate the realization of the designers vision, whether it includes a single door unit in punched openings or multiple-window/door combinations in storefront, ribbon or stacked configurations.

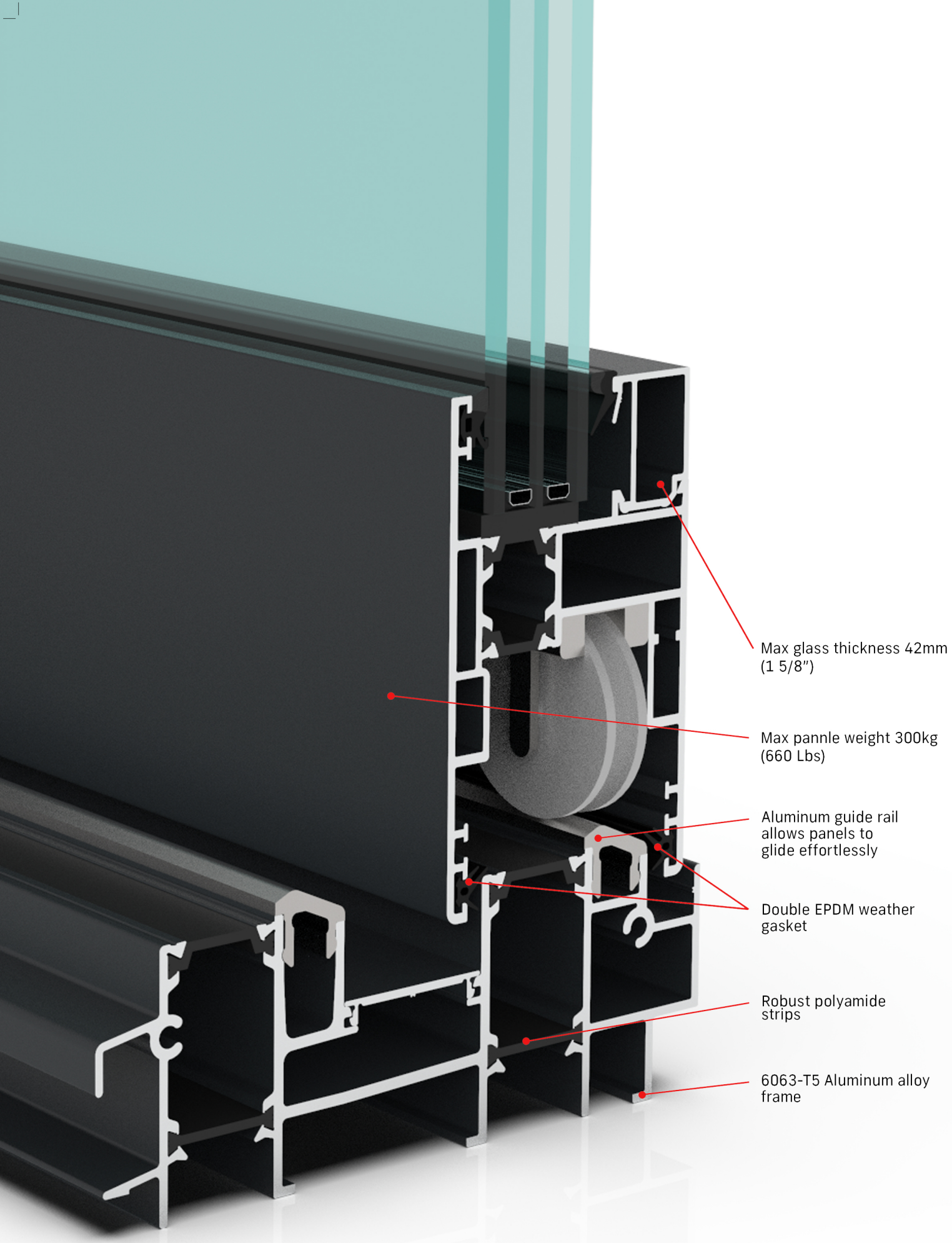
LS 150

System Overview Lift & Slide

Expand your living space; the functional & alluring method to creating large glazed areas.

The perfect solution for maximising space and minimising the barriers between the inside and out. From wall to wall, and from floor to ceiling the LS150 is available in a variety of panel arrangements, in dual, triple track and pocket door configurations.

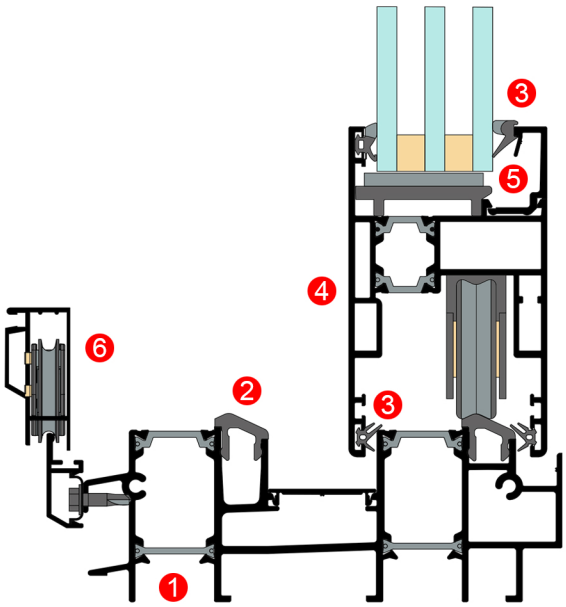
Utilizing fully inclusive design, this robust lift & slide system is engineered using sophisticated hardware allowing the construction of large, effortlessly sliding panels with double and triple glazing. Suitable for both commercial and residential, new construction and renovation the LS150 is an unequaled value-engineered system for your project. This Lift & Slide solution is a testament to Tiltco's uncompromised dedication to marrying design, aesthetics & performance.


Max glass thickness 42mm
(1 5/8")
Max pannle weight 300kg
(660 Lbs)
Aluminum guide rail
allows panels to
glide effortlessly
Double EPDM weather
gasket
Robust polyamide
strips
6063-T5 Aluminum alloy
frame

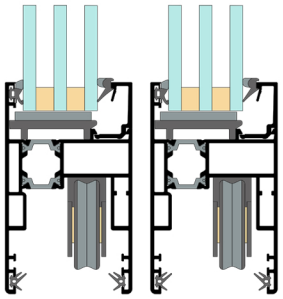
LS 150

Design Features : Lift & Slide

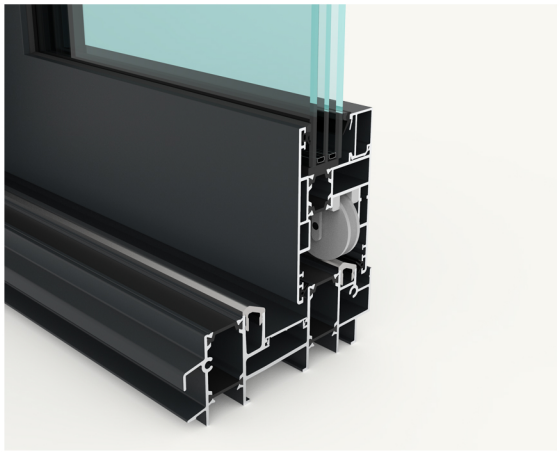
Create a customized picturesque view, and bring the outside in.

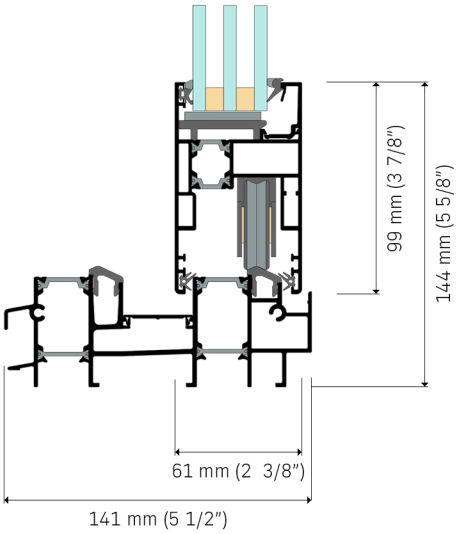


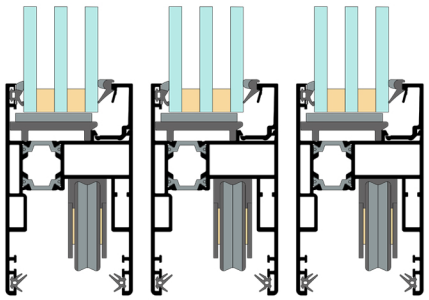
1. Uniquely shaped threshold for water evacuation.
2. Ergonomic aluminum guide rails.
3. Double weather EPDM gasket allows for maximum weather protection.
4. Robust profile for maximum structural performance.
5. Glazing depth up to 42 mm (1 5/8), for the highest thermal efficiency.
6. Optional Integrated screen track.



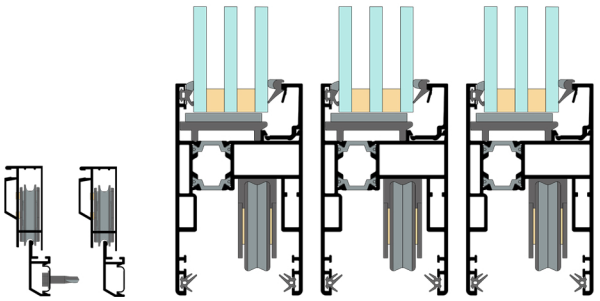
LS 150
2 Track Configuration



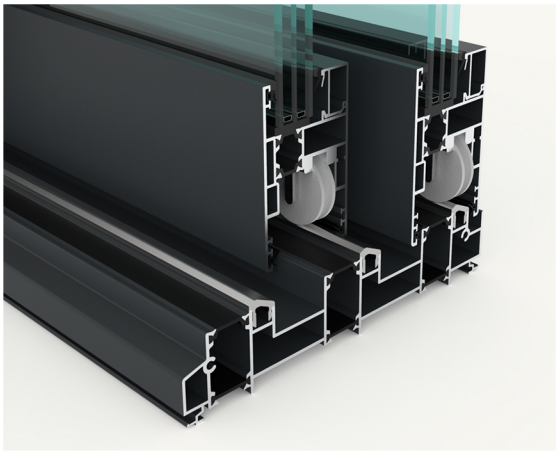


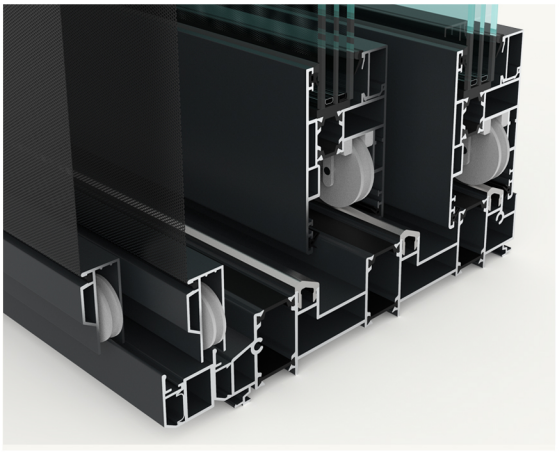


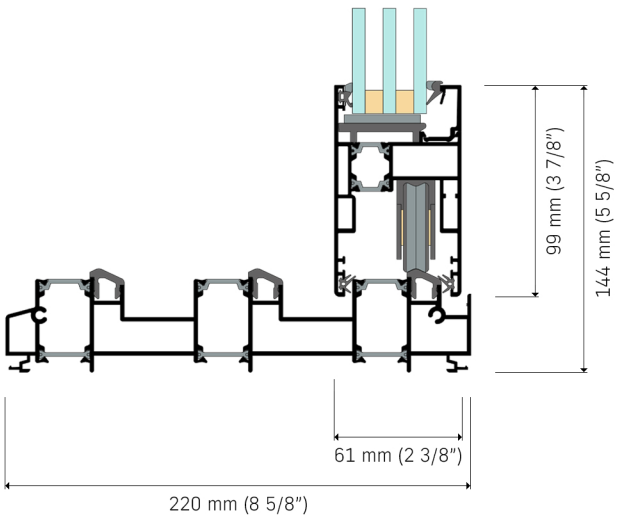
LS 150
3 Track Configuration

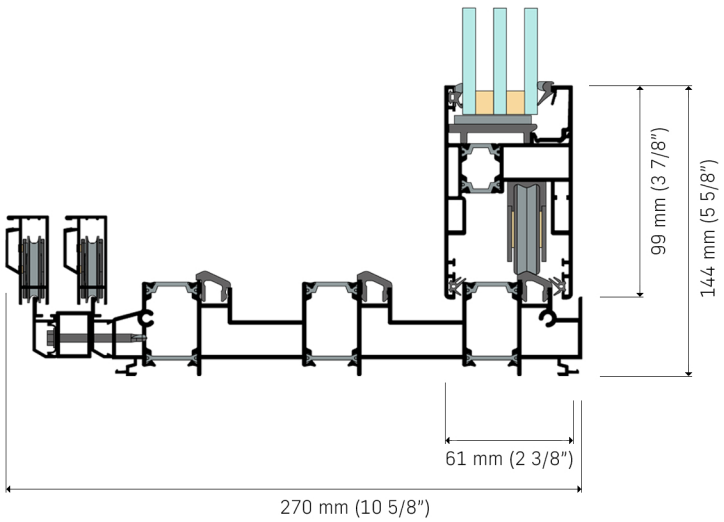


LS 150 with Integrated Screen
3 Track Configuration





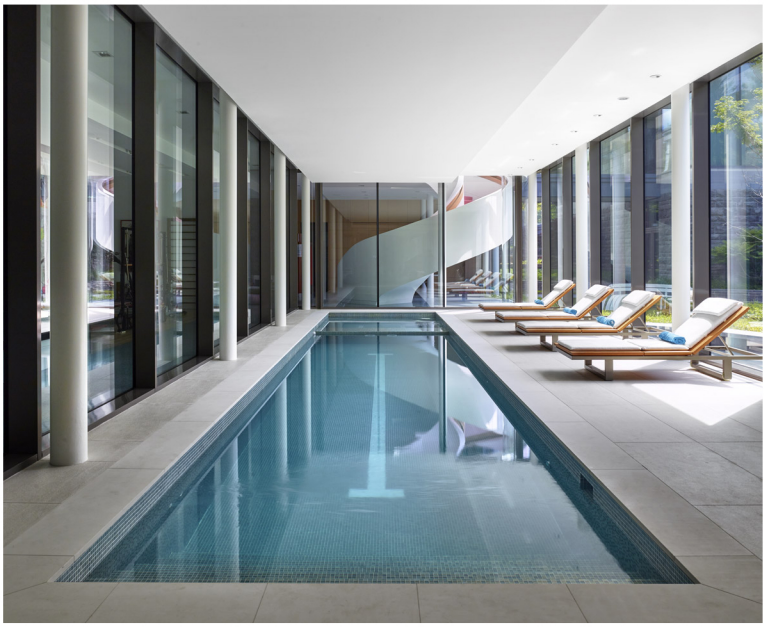




PROJECTS:

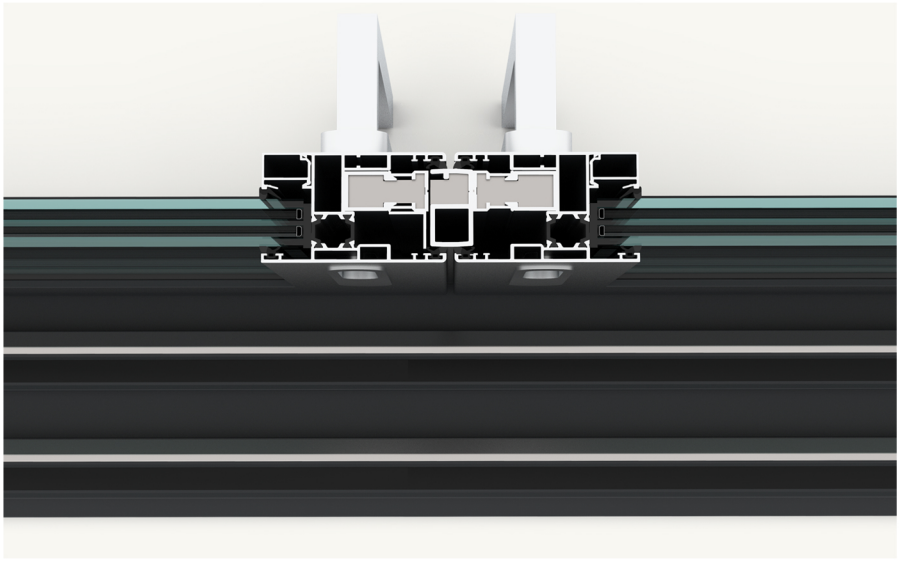
Strata House

LOCATION: Toronto, Ontario.
DESIGN: Audax
PHOTOGRAPHY: Studio Shai Gil

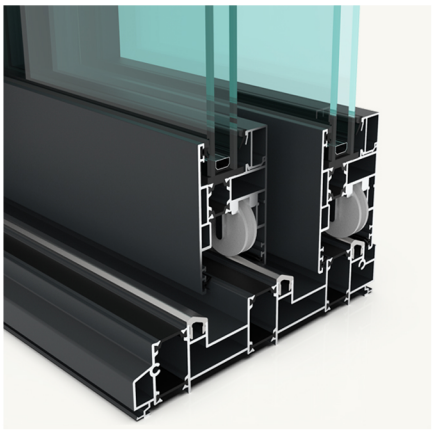


LS 150 Lift & Slide

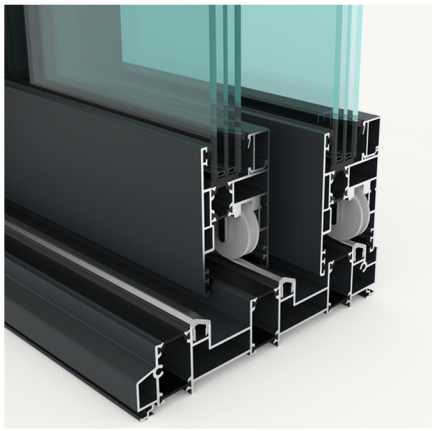
System and Performance



The LS 150 is truly a feet of engineering. Using robust, durable operating hardware technology allows for a virtually silent and effortless gliding sliding panel that can accommodate double and heavy triple glazing. With premium design and excellent energy performance, the LS150 adds style, flexibility and security to any space while emphasizing the connection to the outdoors.



Double glazed unit



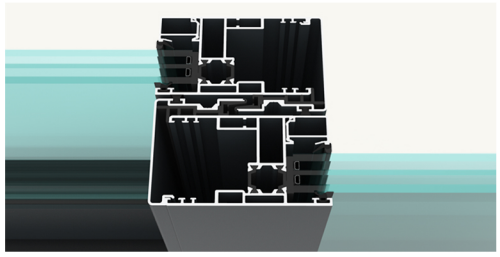
Triple glazed unit

U-factor	0.35	U-factor	0.27
Shgc	0.20	Shgc	0.21
Vt	0.44	Vt	0.36
Condensation Resistance	45	Condensation Resistance	45

Primary Product Designator	class c - pg35
Design Pressure	±1680 Pa (±35.00 psf)
Air Infiltration	0.3 L/s/m² (0.05 cfm/ft²)
Acoustic Performance (with Rw per IGU 45 dB)	up to 48 dB
Air Infiltration/Exfiltration	A3
Water penetration resistance test pressure	470 Pa (9.75 psf)

ref: LS 150 (size tested 4000 x 2500 mm) AI - 0303, AAMA/WDMA/CSA 101/I.S.2/ A440 NAFS
ref: thermal testing glass LS 150 : E366 / ARG90 / i89 (6MM/6MM) - 1"" IG" , SNX 62/27 / ARG90 / SNX 62/27 / ARG90 / IS-20 (6MM/6MM/6MM)- 1-3/4"

Variations



Interlock (Closed position)

Interlock (Open position)

Lower & Upper section

An effortless turn of the contemporary designed handle to its respective position silently releases heavy duty cast nylon wheels at the bottom of the sash. Thus, gently propelling the panel upwards allowing it to freely glide across maintenance free sliding guides. In closed position the door descends on its interior profile, which confers superior protection against water, wind, snow and noise. In addition to its excellent sealing locking mechanisms the head and sill sections are extruded with multiple polyamide thermal barrier strips, which permit supreme energy ratings.

Colour

Ral # 9005
Black

Ral # 7021
Black Grey

Ral # 7016
Anthracite Grey

Clear Anodized

LS 150 is constructed from extruded aluminum- in a wide range of colours and superficial finishes. Using the ral system for colour coding, Tiltco has the ability to produce customize colours for any project.

Ask your sales representative for more colour options.

Handles

Berlin

Amsterdam

Exterior Handle

Handle Colours

Black Matte

Stainless Steel

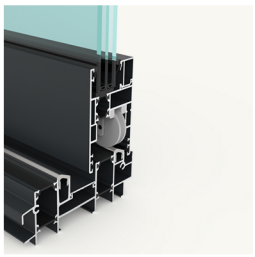
Bronze *

Copper *

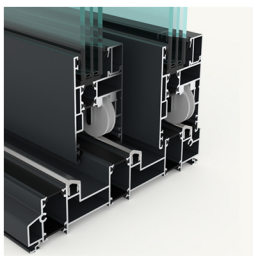
Gold *

* = Custom colour. Consult your sales representative.

Type



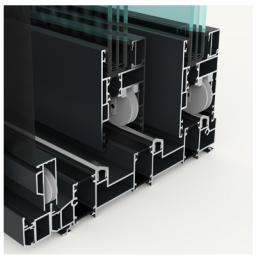
2 Track



3 Track

Two track and three track options allow for a fully customizable panel configurations so you can freely design a truly bespoke architectural look.

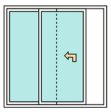
Accessories



cp 130 ls
3 Track w/ Integrated screen

LS 150 has a specialized fly screen that uses hidden features to achieve a seamless design. The LS 150 minimalist designed fly screen can be used together with any type of architectural application

Configurations



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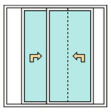

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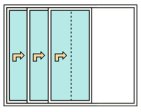

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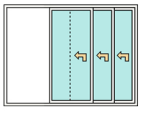

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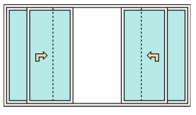

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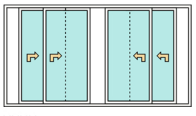

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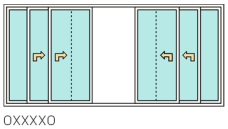

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Tiltco's LS 150 system opens up the home interior, Indoor and outdoor space merges to create a unifiles living environment. Wall pockets allow the sliding doors to be fully retracted out of sight. The eternal charm of the LS 150 concept transforms the view into a spellbinding design feature.

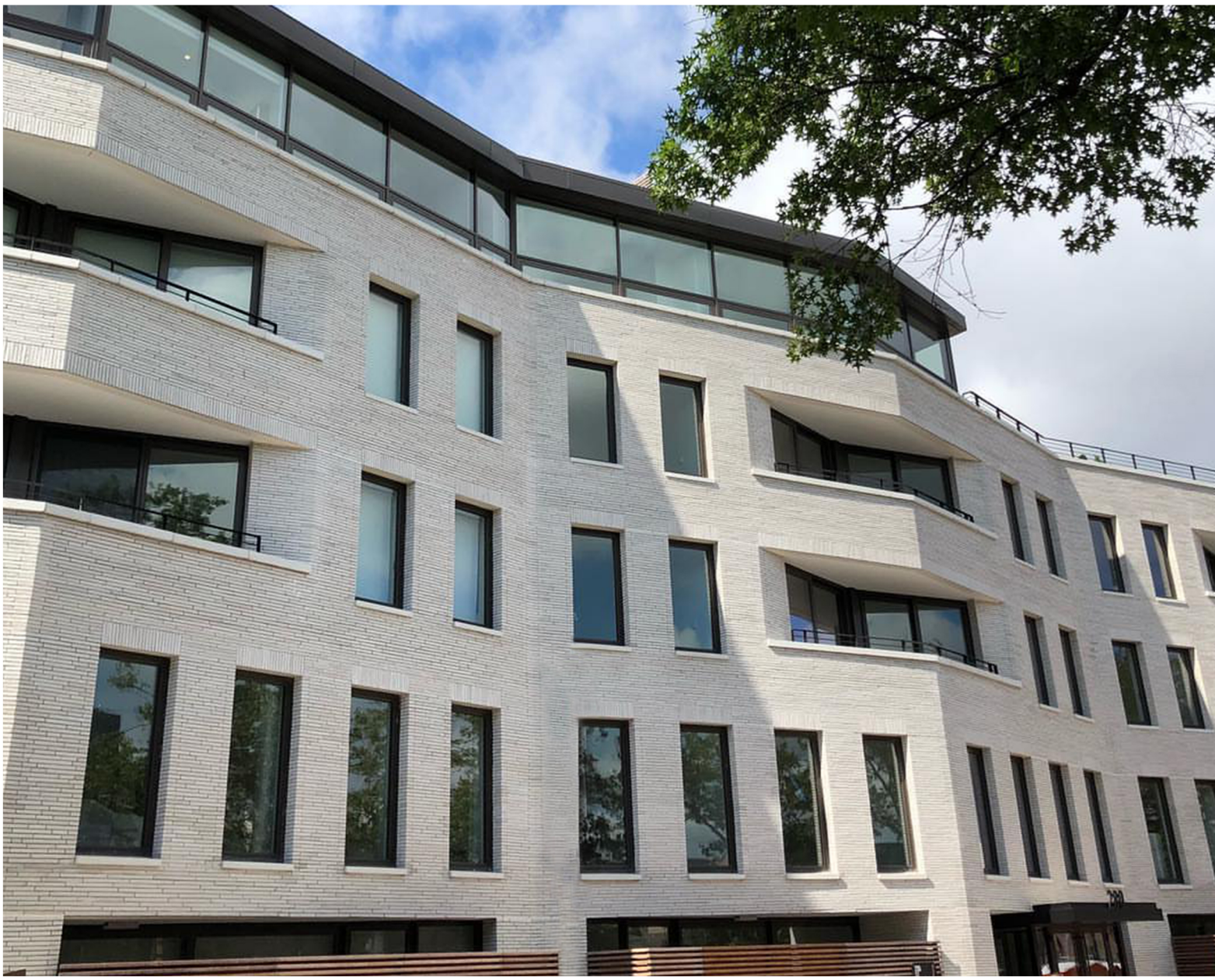
PROJECTS:

Teph Inlet

LOCATION: Chester, Nova Scotia
DESIGN: Omar Gandhi
PHOTOGRAPHY: Ema Peter

PROJECTS:

280 SM



PROJECTS:

Blue Mountains Chalet

TILTCO
Architectural

TILTCO Plant 1 (Show room)
1200 Stellar Drive, Newmarket,
Ontario, Canada. L3Y 7B9

TILTCO Plant 2
1180 Ringwell Drive, Newmarket,
Ontario, Canada. L3Y 8V9

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