

# STOREFRONT & ENTRANCES



**TUBELITE<sup>®</sup>**  
**DEPENDABLE**

LEADERS IN ECO-EFFICIENT STOREFRONT,  
CURTAINWALL AND ENTRANCE SYSTEMS

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Tubelite® has been in the business of fabricating and distributing architectural aluminum products for the glass and glazing industry since 1945. Storefront, entrance and curtainwall systems are available directly from Tubelite® and from a network of independent distributors. Tubelite's corporate office is located in Walker (Grand Rapids), Michigan, and our extrusion plant is in Reed City, Michigan. Fabrication, warehouse, and shipping operations are located in Walker, Michigan and Dallas, Texas. Tubelite also has remote sales offices in strategic geographic locations.

Our promise to you is quality in everything we do; fast, reliable and consistent delivery; and responsible, courteous service with a personal touch.

# TUBELITE®

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CURTAINWALL AND ENTRANCE SYSTEMS

800-866-2227 / [www.tubeliteinc.com](http://www.tubeliteinc.com)

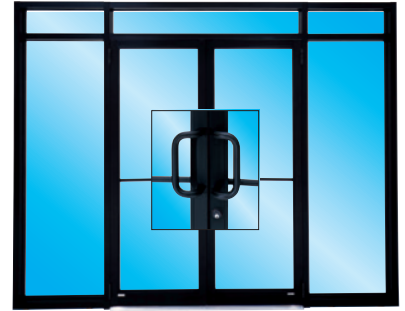


YMCA Wilmington, Wilmington, NC  
Photographer: Farid Sani

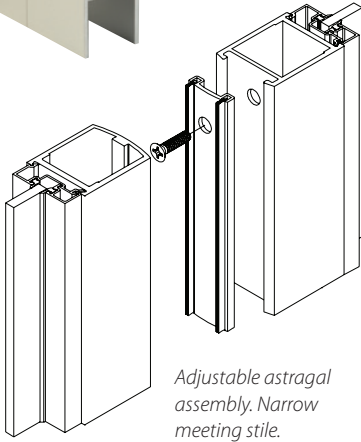
# Tubelite® Entrances

## Standard Narrow Stile Entrances

Our Standard Narrow Stile Entrances are designed for light-to-moderate use in commercial applications. Standard Narrow Stile has 2-1/8" vertical stiles and top rail, and 4" bottom rail - optional up to 10" for ADA compliance. The smooth design of Tubelite's door hardware features a convenient pull handle and push bar with lock location 36" above the finished floor. Stock doors and frames are anodized with clear or dark bronze finishes, and readily available for quick delivery.



*Standard Narrow Stile  
1-3/4" x 2-1/8" Door with  
10" Bottom Rail; 0A Clear  
Anodized Finish; 1/4" Glass*



*Adjustable astragal  
assembly. Narrow  
meeting stile.*

## Standard Medium Stile Entrances

Our Standard Medium Entrances are designed for moderate to heavy use in commercial applications. Standard Medium Stile has 3-1/2" vertical stiles and top rail, and 6-1/2" bottom rail - optional up to 10" for ADA compliance. The smooth design of Tubelite's door hardware features a convenient pull handle and push bar with lock location 36" above the finished floor.

## Standard Wide Stile Entrances

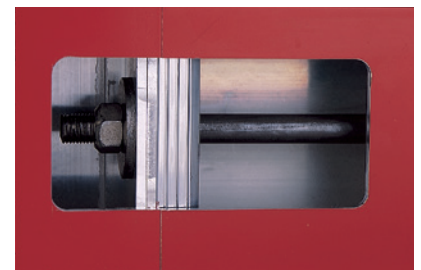
Our Stand Wide Stile Entrances are designed for moderate to heavy use in commercial applications. Standard Medium Stile has 5" vertical stiles and top rail, and 6-1/2" bottom rail - optional up to 10" for ADA compliance. The additional width of Medium and Wide stile doors provides greater durability, and allows application of a wider variety of operating hardware.



*Medium Stile Entrance*

## Durable Tie-Rod Construction

The strength and flexibility of steel tie-rod construction is what holds it all together and makes our doors endure. Tie-rod assembly is as durable as welded corner construction, but superior in many ways. Tubelite doors can be modified, disassembled or resized right in the field. No other door offers you this much strength and flexibility.



## WE LISTEN

Members of our management staff personally contact our glazing contractor clients regularly. We learn what works and what doesn't — from their perspective, not ours. The result is solutions that work — solutions tailored for the field — so jobs get done right the first time.

Tubelite® Standard Entrances	Narrow Stile	Medium Stile	Wide Stile
<b>Application</b>	Offices, Strip Centers	Retail Stores	Public Buildings
<b>Traffic</b>	Light to Moderate	Moderate to Heavy	Heavy
<b>Vertical Stile 1-3/4" x</b>	2-1/8"	3-1/2"	5"
<b>Top Rail 1-3/4" x</b>	2-1/8"	3-1/2"	5"
<b>Bottom Rail 1-3/4" x</b>	4" (opt. up to 10")	6-1/2" (opt. up to 10")	6-1/2" (opt. up to 10")

Dimensions do not include 1/2" glass stops.

Modified Narrow Stile  
1-3/4" x 2-1/8" Door with  
4" Bottom Rail; BP Beige  
Painted Finish, 1/4" Glass

## Tubelite® Modified Entrances

Narrow, Medium and Wide Stile Doors can be anodized or painted in any of our standard finishes plus an infinite number of blendable standard and custom colors. A wide variety of specialized hardware can be applied, including butt hinges, offset or center pivots, push bars, pull handles, locks and cylinders. The simple addition of a snap-in glazing pocket in the doorframe allows you to easily incorporate sidelights. Horizontal or vertical mid-rails are available in widths from 1/2" to 10".



## Tubelite® Custom Entrances

Automation, Speed, Accuracy, and Flexibility. Delivered at a Competitive Price! Tubelite custom entrances deliver a winning combination of expertise with special door hardware and superior quality craftsmanship and materials time after time. You can rely on our experience, close relationships with hardware suppliers, and state-of-the-art manufacturing to provide the best lead-time in the industry.

Our product knowledge is your assurance that the order will be correct whether Tubelite fabricates to a template or installs the door hardware.

- Have the doors prepped only and apply the hardware yourself.
- Order the door hardware yourself and have us apply it.
- Let Tubelite do it all!





## Tubelite® Monumental Entrances

Designed to withstand heavy use in high-traffic areas, Tubelite's Monumental Doors feature a section depth of 2" and minimum wall thickness of 3/16", increased at critical points to 1/4" for added strength. Available in Narrow Stile 3", Medium Stile 3-1/2" and Wide Stile 5" models; top rails in 3-1/2", 4-1/2" and 6" heights; and bottom rails in 6" or optional 10" heights for ADA compliance. Sight lines complement the bold features of institutional applications and heavy-duty hardware. Framing may be reinforced with steel and used with a continuous hinge for maximum strength and dependability.



Monumental Wide Stile Doors;  
Sam Houston Math, Science, and Technology Center; Houston, TX;  
Photographer: Brian Austin Photography

### Tubelite® Monumental Entrance Product Specifications

**Application:** Schools, Universities, Hospitals, Offices

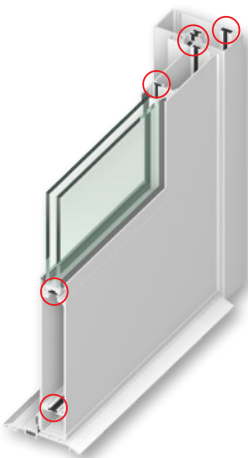
**Description:** Narrow Stile 3", Medium Stile 3-1/2" and Wide Stile 5" models; top rails in 3-1/2", 4-1/2" and 6" heights; and bottom rails in 6" or optional 10" heights for ADA compliance

Glass:	Air Infiltration:	Structural:	U-Factor** Single Door:	U-Value ** Double Door:
1" std (1/8" – 1")	1.0 CFM / Ft.2 @ 1.57 PSF	30 PSF – Design 45 PSF – Overload	Narrow: 0.70 Medium: 0.76 Wide: 0.81	Narrow: 0.65 Medium: 0.71 Wide: 0.76

### Dimensions do not include 1/2" glass stops

Standard Entrance Series	Narrow Stile	Medium Stile	Wide Stile
<b>Traffic</b>	Heavy	Heavy	Heavy
<b>Vertical Stile 2" x</b>	3"	3-1/2"	5"
<b>Top Rail 2" x</b>	3-1/3"	3-1/2"	5"
<b>Bottom Rail 2" x</b>	6" (opt. up to 10")	6" (opt. up to 10")	6" (opt. up to 10")

\*\* U-Factor per NFRC 100. Refer to the U-Value table at: [www.tubeliteinc.com/products/entrances/monumental-entrances/](http://www.tubeliteinc.com/products/entrances/monumental-entrances/)



Tubelite thermal entrances use ThermI=Block to provide superior insulation through increased aluminum separation and air space, while also increasing strength and reducing stress.

## ThermI=Block HIGH PERFORMANCE THERMAL FRAMING

### Tubelite® ThermI=Block Stile Entrances

Tubelite ThermI=Block Entrances are designed using the same durable components as our Standard Entrances for outstanding craftsmanship and strength, with the additional benefit of strut thermal barriers for enhanced thermal performance. Door stiles are available in Narrow Stile 2 1/2", Medium Stile 4" and Wide Stile 5" models; top rails in 4" and 5" heights; and bottom in 10" height for ADA compliance. Snap-in thermally broken vertical frame closures easily accommodate addition of sidelites and incorporation with thermal storefront framing.

ThermI=Block Entrances are furnished with mortised butt hinges, offset pivots or continuous hinges as specified. Standard deadbolt locks, and concealed vertical rod or rim panic exit devices also may be selected. Standard pull handles have been designed for ADA access and have matching push bars.



Choice One Bank, Newaygo MI  
Products Used: T14000 Storefront, Thermal Door

### Tubelite® ThermI=Block Entrance Product Specifications

**Application:** Thermally broken door with insulating glass for enhanced thermal performance

**Description:** Thermally broken vertical stiles and horizontal rails for energy savings and ADA compliance

Glass:	Air Infiltration:	Structural:	U-Factor** Single Door	U-Factor** Double Door	CRF:
1" std	1.0 CFM / Ft.2 @ 1.57 PSF	50 PSF – Design 75 PSF – Overload	Medium: 0.58 Wide: 0.59	Medium: 0.52 Wide: 0.53	57

\*\* U-Factor per NFRC 100. Refer to the U-Value table at: [www.tubeliteinc.com/products/entrances/thermlblock-thermal-doors/](http://www.tubeliteinc.com/products/entrances/thermlblock-thermal-doors/)

## THE SOLUTION

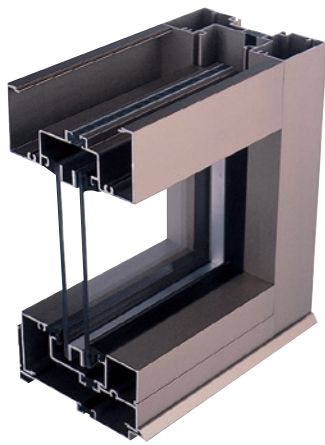
Our goal is simple — to be the most dependable supplier in the architectural aluminum industry. This means quality products; fast, reliable delivery; and ease of fabrication and installation. Tubelite has built its business around this goal.

*One Bellevue Place, Nashville, TN  
Architect: H. Michael Hindman Architects*





Wendy's, Cemetery Road, Hilliard, OH  
 Installer: Richardson Glass



## Tubelite® E/T14000 Storefront

For optimal strength and thermal performance, use Tubelite's 14000 Series Storefront Framing, a flush-glazed system for use on storefront and low-rise applications. Framing is available in standard non-thermal and thermal members with 2" x 4-1/2" profiles and a 1/2" bite for use with glass or panels up to 1-1/8" thick. Extra-heavy intermediate verticals are available for high performance against strong windloads.

Reduce project labor costs with the flexibility of inside or outside glazing. Members can be assembled using screw spline or clip joinery, and framing is compatible with Tubelite Narrow, Medium and Wide Stile Doors.

Our 14000 Series Storefront products are subjected to thorough testing by an independent laboratory, ensuring that you get the highest quality storefront framing products that the industry has to offer.



Virtual Learning Academy; Berrien Springs, MI;  
 14000 Series Storefront; Finish: Hartford Green Paint;  
 General Contractor: Shelton Construction; Architect:  
 CARMI Design Group

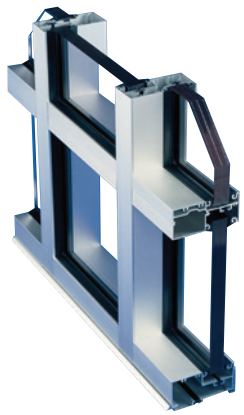
### Tubelite® T14000 Product Specifications

**Application:** Low-rise commercial buildings: retail, office, healthcare, schools, etc.

**Description:** 2" x 4-1/2" center set, outside or inside flush glazed storefront

Face Width:	System Depth:	Glass:	Air Infiltration:	Water Infiltration:	Structural:	CRF:	U-Factor**:	Acoustic:
2"	4-1/2"	1" std (1/8" – 1-1/8")	0.06 CFM/Ft.2 @ 6.24 PSF	10 PSF – Static 10 PSF – Dynamic	30 PSF – Design 45 PSF – Overload	T (Thermal) 62 <sub>f</sub> 68 <sub>c</sub>	0.38 - Thermally Insulated 0.33 - Thermally Broken	STC 32 OITC 26

\*\* U-Factor per NFRC 100. Refer to the U-Value table at: [www.tubeliteinc.com/products/storefront/14000-series-storefront-framing/](http://www.tubeliteinc.com/products/storefront/14000-series-storefront-framing/)



## Tubelite® 14000 I/O Storefront

Glass or panels can be positioned to the inboard (I) or outboard (O) side of the 4-1/2" depth frame to achieve the look you imagine. Typical glass thickness is 1", and can be installed from the outside or inside of the building. Special glazing pocket reducers allow the use of 1/4" infill thicknesses, too.

14000 I/O Series Multiplane Storefront Framing thermal barrier insulates exterior surfaces from the interior to minimize temperature transfer. This provides industry accepted performance for condensation resistance and energy performance.

Using the same design, assembly, and accessories as the 14000 center glazed system allows combining inboard, outboard and center planes of glass in the same elevation with the same great performance.

789 Eisenhower, Ann Arbor, MI  
Installer: Curtis Glass



### Tubelite® 14000 I/O Product Specifications

**Application:** Low-rise commercial buildings: retail, office, healthcare, schools, etc

**Description:** 2" x 4-1/2" multiplane outside or inside flush glazed storefront

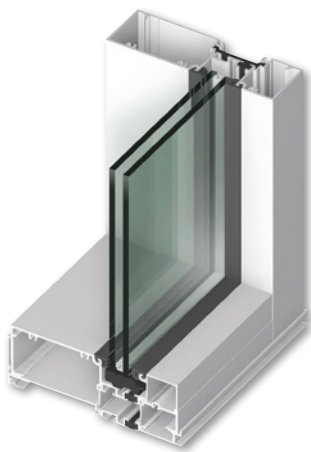
Face Width:	System Depth:	Glass:	Air Infiltration:	Water Infiltration:	Structural:	CRF:	U-Factor**:	Acoustic:
2"	4-1/2"	1" std (1/8" - 1-1/8")	0.06 CFM/Ft.2 @ 6.24 PSF	10 PSF - Inside Plane 12 PSF - Outside Plane	30 PSF - Design 45 PSF - Overload	52 <sub>f</sub> 61 <sub>G</sub> - Inside Plane 67 <sub>f</sub> 69 <sub>G</sub> - Outside Plane 64 <sub>f</sub> 63 <sub>G</sub> - Outside Plane SSG	0.33 - Inside Plane 0.35 - Outside Plane 0.32 - SSG Outside Plane	STC 32 OITC 26

\*\* U-Factor per NFRC 100. Refer to the U-Value table at: [www.tubeliteinc.com/products/storefront/14000-io-series-multiplane-storefront-framing/](http://www.tubeliteinc.com/products/storefront/14000-io-series-multiplane-storefront-framing/)

The Beacon, Atlanta, GA  
Photographer: JakSnap Photography







## Tubelite® T24650/ E24650 Storefront

A new look for a timeless design. T24650 Series Storefront Framing has the same design, assembly and accessories as the 14000 center glazed system's 2" face with a 6-1/2" depth. This additional 2" depth on the interior side of the frame provides greater structural properties and allows taller first floor openings. The wider profile also cuts a distinctive image for a storefront that stands out from the crowd.

T24650 Series provides industry-accepted performance for CRF (condensation resistance) and U<sub>c</sub> (conduction), using the same thermal barrier as the 14000 and 14000 I/O systems.

TCC 35 Eagle, Buildings A, H, J,  
 Photographer: Joe Hernandez



### Tubelite® T24650 Product Specifications

**Application:** Low to mid-rise commercial buildings including retail, office, healthcare, schools, etc.

**Description:** 2" x 6-1/2" single P&D, outside or inside flush glazed storefront, front set glass.

Face Width:	Overall Depths:	Glass Thickness:	Air Infiltration:	Water Infiltration:	Structural:	CRF:	U-Factor**:	Acoustic
2"	6-1/2"	1"	0.06 CFM/Ft.2 @ 6.24 PSF	12 PSF – Static 12 PSF – Dynamic	30 PSF – Design 45 PSF – Overload	72 <sub>e</sub> / 72 <sub>G</sub>	0.35 - Thermally Broken	31 STC 25 OITC

\*\* U-Factor per NFRC 100. Refer to the U-Value table at: [www.tubeliteinc.com/products/storefront/24650-series-storefront-framing/](http://www.tubeliteinc.com/products/storefront/24650-series-storefront-framing/)



Wilmington Gardens, Salt Lake City, UT  
 Photographer: Cache Valley Photographers

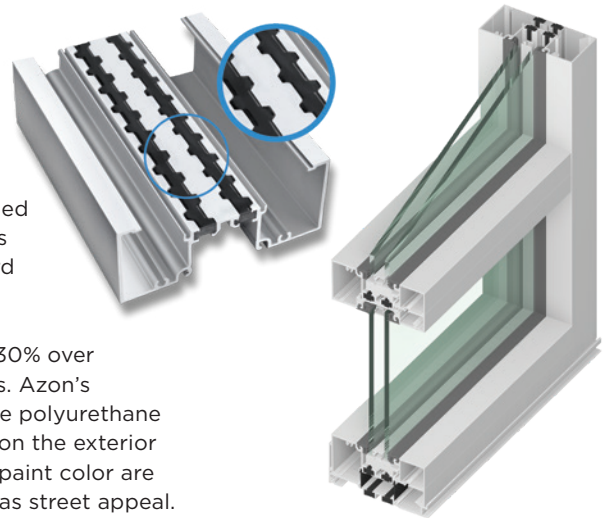
## Thermal-Block<sup>®</sup>

HIGH PERFORMANCE THERMAL FRAMING

### Tubelite<sup>®</sup> TU24000 Thermal-Block<sup>®</sup> Storefront

Tubelite's most popular thermally broken storefront line has been expanded and enhanced with an additional P&D thermal break. The TU24000 Series has the same 2" x 4-1/2" profile as the T14000 system, and offers standard screw-spline or shear block connections.

The dual thermal break improves U-Factor by 16% and increases CRF by 30% over a single P&D pocket when using the same size and type of insulated glass. Azon's Lancer<sup>®</sup> mechanical lock provides long-term resistance to shrinkage of the polyurethane barrier. Glass is centered in the 4-1/2" system depth for a pleasing reveal on the exterior and interior sides of the frame. Seven anodized finishes and 20 standard paint color are available to complement any project with warranted protection, as well as street appeal.



#### Tubelite<sup>®</sup> TU24000 Product Specifications

**Application:** Low and mid-rise commercial buildings requiring high energy and condensation resistance performance

**Description:** 2" x 4-1/2" dual thermal barrier center set storefront system, screw spline or shear block connections, exterior or interior glazed

Face Width:	Overall Depths:	Glass:	Air Infiltration:	Water Infiltration:	Structural:	U-Factor**:	CRF:	Acoustics:
2"	4-1/2"	1" std. (1/8" to 1-1/8")	0.06 CFM / Ft.2 @ 6.24 PSF	12 PSF - Static 12 PSF - Dynamic	30 PSF - Design 45 PSF - Overload	0.31 - Thermally Broken	69 <sub>f</sub> 68 <sub>c</sub>	STC 37 OITC 31

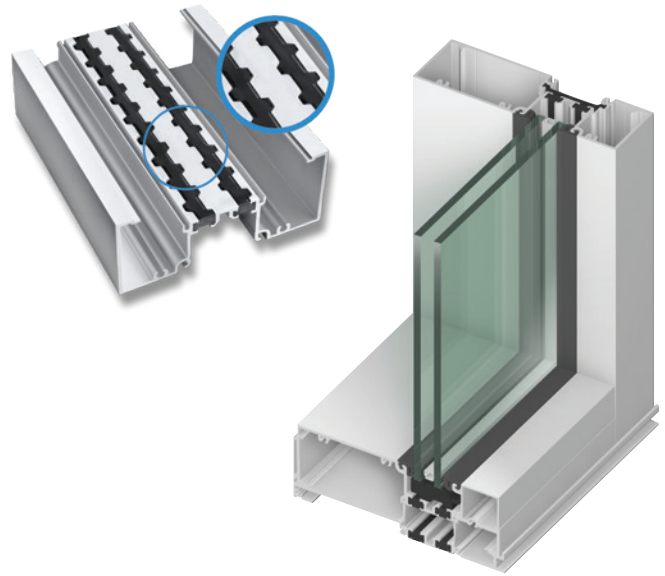
\*\* U-Factor per NFRC 100: COG = 0.24 with warm edge spacer, 2" x 4-1/2" thermal frame.

Refer to the U-Factor table at: [www.tubeliteinc.com/products/storefront/thermalblock-tu24000/](http://www.tubeliteinc.com/products/storefront/thermalblock-tu24000/) for other glass makeups and configurations.

## Tubelite® TU24650 Storefront

Tubelite's dual thermally broken storefront line has been expanded and enhanced with the addition of TU24650 Series 2" x 6-1/2".

The dual thermal break decreases U-Factors and increases CRF over a single P&D pocket when using the same size and type of insulated glass. Azon's Lancer® mechanical lock provides long-term resistance to shrinkage of the polyurethane barrier. The glass plane matches that of our 4-1/2" system depth for a pleasing reveal on the exterior and interior sides of the frame. Seven anodized finishes and 20 standard paint color are available on this storefront framing system to complement any project with warranted protection, as well as street appeal.



### Tubelite® TU24650 Product Specifications

**Application:** Low to mid-rise commercial buildings including retail, office, healthcare, schools, etc.

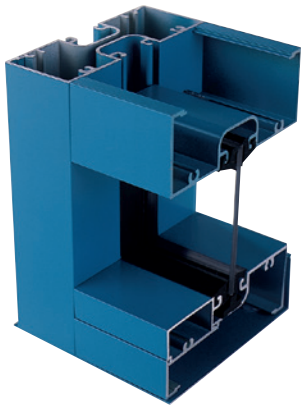
**Description:** 2" x 6-1/2" dual P&D outside or inside flush glazed storefront, front set glass.

Face Width:	Overall Depths:	Glass Thickness:	Air Infiltration:	Dynamic Water:	Structural:	U-Factor**:	CRF:	Acoustic:	Outside HVHZ Approved:
2"	6-1/2"	1" std.	0.06 CFM/Ft.2 @ 6.24 PSF	12 PSF	30 PSF – Design 45 PSF – Overload	0.32 - Thermally Broken	Frame 75 Glass 70	31 STC 25 OITC	YES FL# 20393.1

\*\* U-Factor per NFRC 100. Refer to the U-Value table at: [www.tubeliteinc.com/products/storefront/thermalblock-tu24650/](http://www.tubeliteinc.com/products/storefront/thermalblock-tu24650/)

*TU24650, Finish: 6P- Quaker Bronze; Project: Richard L. Postema Family Clubhouse; Ann Arbor, MI; Architect: UM-Facilities & Operations AEC / Partners & Sirny Architects; Photographer: Melanie Maxwell / The Ann Arbor News*





## Tubelite® 4500 Storefront

Our 4500 Series Storefront framing is ideal for a wide variety of interior or low-rise exterior applications. Profiles of 1-3/4" x 4-1/2" are designed for 1/4" to 3/8" exterior glazing, and can be assembled by screw spline or clip joinery. The roll-in gasket is easy to install at the interior and exterior of the glass. The 1-3/4" framing is compatible with Tubelite Narrow, Medium and Wide Stile Doors.



AISD Dan Dipert Career & Technical Center,  
Photographer: Chad M. Davis

### Tubelite® 4500 Product Specifications

**Application:** Low and mid-rise commercial buildings including retail, office, healthcare, schools, etc.

**Description:** 1-3/4" x 4-1/2" center set, screw spline or shear block construction non thermal storefront field glazed, shear block construction storefront.

Face Width:	Overall Depths:	Glass:	Air Infiltration:	Water Infiltration:	Structural:	Acoustic:
1-3/4"	4-1/2"	1/4" std. (3/16" to 3/8")	0.06 CFM/Ft.2 @ 6.24 PSF	12 PSF - Static 12 PSF - Dynamic	30 PSF - Design 45 PSF - Overload	28 STC 27 OITC

## Tubelite® INT45 Storefront

Interior Flush Glaze Framing for glass thicknesses from 1/4" to 1/2" allows easy incorporation of standard 4 1/2" aluminum storefront with metal stud and drywall systems commonly used in commercial office and retail space. Installation is simple and fast with perimeter trim members that are pre applied on one side of the frame opening.

## Tubelite® INT67 Storefront

Interior Flush Glaze Framing for glass thicknesses from 1/4" to 3/4" captures 4-7/8" thick interior metal stud and drywall systems commonly used in commercial office and retail space. Installation is simple and fast with perimeter trim members that are pre applied on one side of the frame opening.

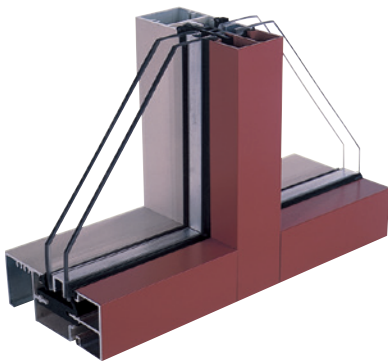
Standard swing doors and frames provide a complete system and come in a variety of anodized, painted and woodgrain finishes.





*VersaTherm Storefront; Finish: Clear Ano; Project: Karmann; Plymouth, MI; Architect: DeMattia Group; Photographer: Gary Esterbrook*

## Tubelite® VersaTherm™ Storefront



VersaTherm™ Storefront framing is our most versatile and economical storefront framing system. The flexible design allows for on-site fabrication in applications ranging from punched openings to mall fronts. VersaTherm is available in a large selection of profiles. Snap-on covers and backmembers, available in a variety of colors, allow for contrasting interior and exterior finishes. Finish options and glass positioning from frame exterior to center meet a wide range of aesthetic requirements.

Snap-on covers and back members are “locked” together by a unique thermal barrier clip. This clip ensures that interior and exterior metal members remain separate while firmly connected, virtually eliminating the transference of frost and condensation. High-performance verticals and compatibility with Tubelite stock doors create a complete and truly versatile system.

### Tubelite® VersaTherm™ Product Specifications

**Application:** Low and mid-rise commercial buildings including retail, office, healthcare, schools, etc.

**Description:** 1-3/4" x (3-1/2" to 6-5/8") field glazed, shear block – screw spline storefront

Face Width:	Overall Depths:	Glass:	Air Infiltration:	Water Infiltration:	Structural:	U-Factor**:	CRF:
1-3/4"	3-1/2" to 6-5/8"	1" (1/4")	0.06 CFM/Ft.2 @ 6.24 PSF	12 - Static	40 PSF - Design	0.36 - Thermally Broken	64 <sub>F</sub> 55 <sub>C</sub>

\*\* U-Factor per NFRC 100: COG = 0.24 with warm edge spacer, 1-3/4" x 4-1/2" non-thermal frame.

Refer to the U-Factor table at: [www.tubeliteinc.com/products/storefront/versatherm-storefront-framing/](http://www.tubeliteinc.com/products/storefront/versatherm-storefront-framing/) for other glass makeups and configurations.

# Tubelite® 3700 Windows

Let fresh air into the building through a storefront or curtainwall. 3700 Series windows can be easily incorporated with Tubelite's other framing systems. Special glazing pocket adapters make installation a breeze.

These curtainwall rated windows have a frame depth of 2" with a maximum size of 3'0" x 5'0" and mitred corners epoxied and crimped on an "L" shaped clip.

Standard and concealed project-out vent design, and casement options are available. The concealed vent design is virtually invisible from the outside of the building, with no visible frame. Screens are also available with frames finished to match the window.

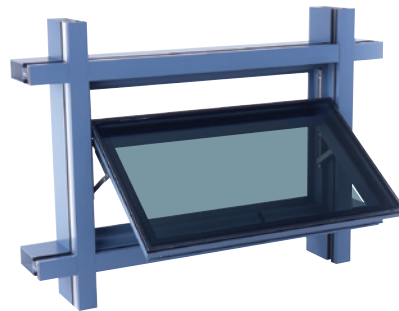
Calvary Church, Naperville, IL,  
Photographer: Joe Hilliard



CW 3700



CVW 3700



VW 3700



Tubelite® 3700 Series Windows	VW3700	CVW3700	CW3700
<b>Application</b>	Conventional Frame	Concealed Vent	Casement Type
<b>Frame Joints</b>	Screw-spline	Screw-spline	Screw-spline
<b>Window Joints</b>	Mitered, 2 Corner Keys, Lanced Stake & Silicone	Mitered, 2 Corner Keys, Lanced Stake & Silicone	Mitered, 2 Corner Keys, Lanced Stake & Silicone
<b>Glass Thickness</b>	1/4" & 1"	1"	1/4" & 1"
<b>Face Width</b>	2-3/8"	-	2-3/8"
<b>Frame Depth</b>	2"	3-1/2"	2"
<b>Hardware</b>	4-bar hinges, Cam lock	4-bar hinges, Cam lock	4-butt hinges, Cam lock, optional roto operator, 2-point egress lock, opening restrictor, egress pull-ring
<b>Air Infiltration</b>	0.10CFM/Ft.2 @ 6.24 PSF	0.10CFM/Ft.2 @ 6.24 PSF	0.10CFM/Ft.2 @ 6.24 PSF
<b>Static Water</b>	12 PSF	12 PSF	12 PSF
<b>AAMA/WDMA/CSA 101 I.5.2/A440-08, NAFS Testing</b>	CLASS CW-PG75 (60X36)-AP	CLASS CW-PG75 (61X38)-AP	CLASS CW-PG60 (26X60)-AP
<b>Life Cycle Tested</b>	2500 Cycles	2500 Cycles	2500 Cycles
<b>CRF (AAMA 1503-2010)</b>	56 <sub>f</sub> / 67 <sub>e</sub>	51 <sub>f</sub> / 64 <sub>e</sub>	59 <sub>f</sub> / 68 <sub>e</sub>
<b>U-Factor**</b>	0.47	0.56	0.46
<b>Florida Approval (Non-Impact)</b>	FL15420	FL15420	FL15421

\*\* U-Value per NFRC 100. Refer to the U-Value table at: [www.tubeliteinc.com/products/operable-windows/](http://www.tubeliteinc.com/products/operable-windows/)

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We offer an option for recycled aluminum on selected extruded products with an industry leading content of post-consumption and pre-consumer material.

**Anodized Finishes**

Clear Class 2 C2	Light Champagne LC	Champagne CH	Light Bronze LB	Medium Bronze MB
Clear Class 1 C1	Dark Bronze DB	Extra Dark Bronze EB	Black BL	Copper CA
			Bordeaux BD	

**Standard Painted Colors – 70% PVDF**

Bone White 1P L1609-70	Colonial White NP L1640-70	Sandstone SP L1607-70	Burnt Sun ZP L1612-70	Antique Bronze ZP L1641-70
Beige BP L1603-70	Light Seawall Beige CP L1614-70	Dove Gray VP L1615-70	Slate Gray WP L1604-70	Charcoal Gray XP L1605-70
Patina Green SP L1616-70	Dark Ivy TP L1617-70	Hardford Green ZP L1606-70	Military Blue DP L1610-70	Black 3P L1601-70
Colonial Red RP L1622-70	Boysenberry SP L1608-70	Sage Brown BP L1620-70	Osaker Bronze 6P L1602-70	

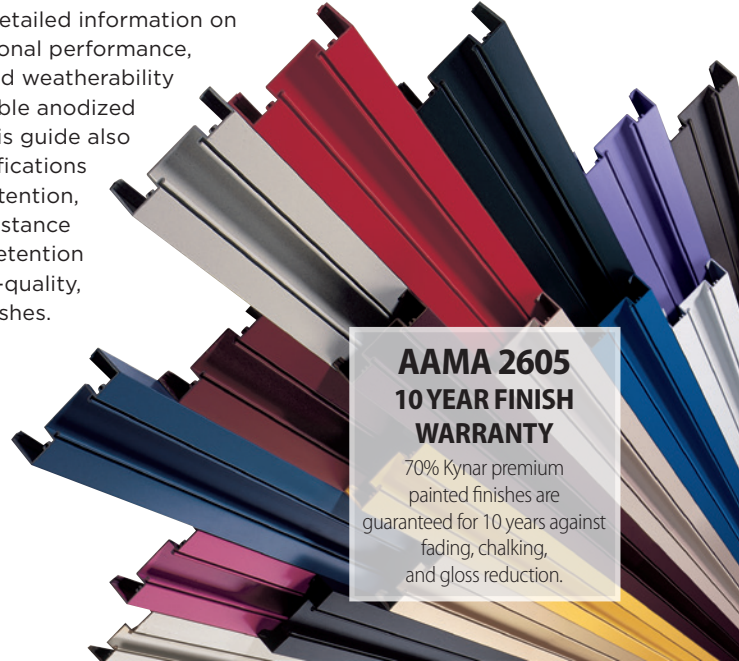
NOTE: Colors shown are not exact and are intended for planning purposes. For actual job, Tubelite® will supply Linetec color chips.

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## Painted and Anodized Finishes

In addition to our stocked Clear and Bronze anodized, and White painted finishes Tubelite offers a wide variety of additional standard anodized and painted colors. Blended custom colors are also available, providing you with an infinite variety of options. More than a palette of pretty colors, our finishes are tough and backed by some of the best warranties in the industry.

See Tubelite's Standard Finish Color Guide for detailed information on the exceptional performance, integrity and weatherability of our durable anodized finishes. This guide also gives specifications for color retention, erosion resistance and gloss retention of our high-quality, painted finishes.



### AAMA 2605 10 YEAR FINISH WARRANTY

70% Kynar premium painted finishes are guaranteed for 10 years against fading, chalking, and gloss reduction.

Visit [www.tubeliteinc.com/finishes](http://www.tubeliteinc.com/finishes) for all the latest finishes.

800-866-2227 / [www.tubeliteinc.com](http://www.tubeliteinc.com)

**Wood Grain Finishes by Tubelite**

Recommended Interior Use Only. No Finish Warranty.

Aged Light Oak	Aged Dark Oak	Oregon Douglas	Teak
National Walnut	Table Cherry	Knotty Pine	Oak
European Cherry	Dark Walnut	Golden Oak	Cherry with Flame
Colony Maple	Cherry	American Douglas	American Maple

For Samples Email: [marketing@tubeliteinc.com](mailto:marketing@tubeliteinc.com)

Note: Colors shown are not exact and are intended for planning purposes. Due to the natural characteristics of the finish, minimal variations in color and grain can be expected. Please check with Tubelite for availability and pricing.

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WARRANTY: Wood grain finishes by Tubelite meet AAMA 2604 with a 5-year warranty.

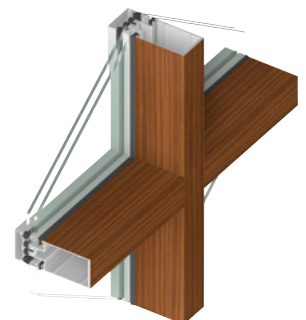
## Wood Grain Finishes

When your design requires more than a stock color, our wood grain textures are ready to dazzle. Wood Grain Finishes by Tubelite have the look and feel of natural wood with the durability and recyclability of aluminum. No more refinishing due to salt, dirt and UV exposure. Our Wood Grain finishes are designed for the toughest environment and clean easily with mild soap and water.

Wood Grain Finishes by Tubelite can be applied to the interior and exterior of Tubelite's storefront, entrance, curtainwall and sunshade devices. Practically everything we manufacture in the Tubelite family of products.

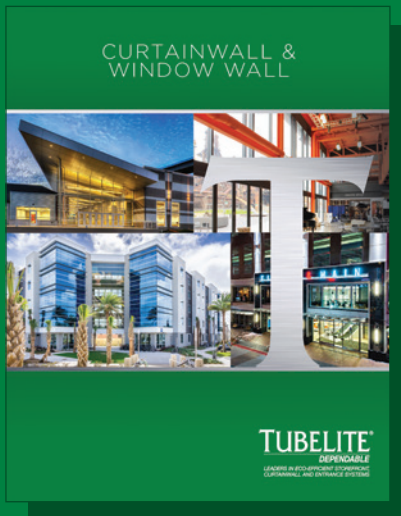
Tubelite offers the look and feel of natural wood with 16 Wood Grain Finishes. These finishes are backed with a 5 year warranty (project review required.)

\* Finishes may vary in tone and color within the same wood grain.



Visit [www.tubeliteinc.com/finishes](http://www.tubeliteinc.com/finishes) for all the latest finishes.

Visit us online to download other Tubelite literature at [www.tubeliteinc.com/products/literature/](http://www.tubeliteinc.com/products/literature/)



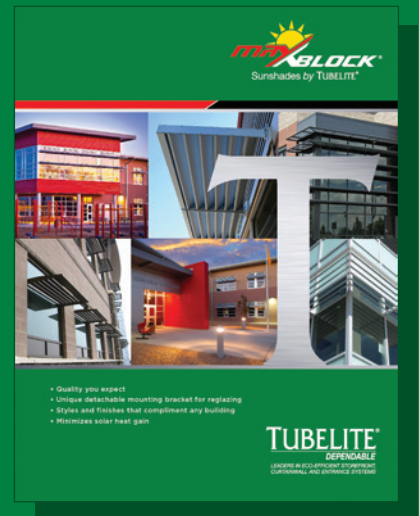
### **Tubelite® Curtainwall Product Brochure**

This brochure contains our 400 Series Curtainwall, 200 Series Curtainwall and Finishes.



### **Tubelite® Therm=Block Product Brochure**

This brochure contains our high performance thermally broken doors, storefronts, and curtainwall systems.



### **Tubelite® MaxBlock® Sunshades Product Brochure**

MaxBlock brochure includes Tubelite's three sun shade designs, Airfoil, "Z" Blade and Tubular, along with Highlighting the benefits of these sun shades.

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