

Southern™
PATIO ENCLOSURES

The Strongest, Most Economical Patio Enclosures, Nationwide

Southern Patio Enclosures designs and delivers commercial-grade patio enclosure systems that maximize usable space, extend operating seasons, and protect guests from changing weather conditions.

Our systems are engineered to endure demanding environments while allowing patios to transition quickly between open-air and enclosed use. The result is improved customer comfort, increased seating capacity, and greater operational efficiency.

Why Southern Patio Enclosures

Commercial Partner
Technical collaboration with owners, builders, and architects from design through installation.

Nationwide Service
Service and installation support available across the United States.

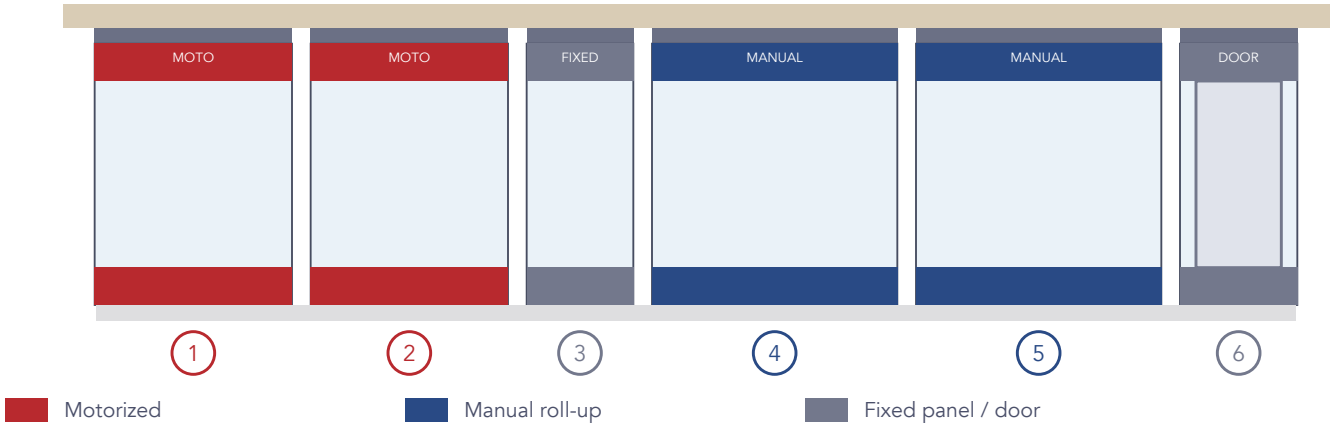
Superior Product
Custom-engineered, commercial-grade enclosure systems built for demanding environments.

Proven Experience
Over 50 years of combined industry experience delivering reliable patio enclosure solutions.

HOW A COMBINATION JOB IS BUILT

One patio, both systems, one quote and one total. Motorized where the enclosure moves every day or has to disappear when it is up; manual where it is opened seasonally or the budget is better spent elsewhere; fixed panels to close the odd spaces neither one suits.

EVERY OPENING IS NUMBERED FROM OUTSIDE THE PATIO, LOOKING IN, LEFT TO RIGHT



Opening schedule

Completed for your patio and issued with the quote. The example below shows the columns.

No.	Location	System	Width	Height	Fabric
1	Street elevation	Motorized	180″	108″	Clear, black border
2	Street elevation	Motorized	180″	108″	Clear, black border
3	Corner infill	Fixed panel	44″	108″	Clear, black border
4	Garden side	Manual — rope & pulley	142″	112″	Clear, black border
5	Garden side	Manual — rope & pulley	142″	112″	Clear, black border
6	Garden side	Door (framed)	40″	112″	Clear, black border

Example only. Your schedule is on the quote and on the layout for approval.

What stays the same across both systems

- One design consultation, one layout for approval, one signature.
- One crew installs the whole patio. We do not subcontract.
- One quote, one total, one deposit.
- The same opening numbers run through the quote, the layout, the shop order and the install.
- Colors are matched across systems — the border, the hood and the tracks read as one job.
- Same fire-rated vinyls throughout. See C-2.
- One number to call afterwards, whichever system needs attention.
- Sheets A-1 onward cover the motorized openings, M-1 onward the manual ones.

MANUAL ENCLOSURES

Manual patio enclosures offer an economical, dependable solution for businesses looking to extend the use of their outdoor spaces without the investment of motorized systems. Built with the same high-performance vinyl and shade materials as our motorized options, these roll-up enclosures are engineered for strength, durability, and everyday reliability. Thoughtfully designed seams and attachment points help withstand wind, rain, and fluctuating temperatures, while the simple manual operation allows for quick adjustments as conditions change. The result is a comfortable, protected patio that maximizes seating capacity and delivers exceptional value season after season.



Vinyl Options



Sun Shade Options

Vinyl Color Options

- White
- Yellow
- Orange
- Red
- Tan
- Green
- Lime
- Light Blue
- Royal Blue
- Navy
- Dark Purple
- Grey
- Brown
- Charcoal
- Black

Sun Shade Colors

- White
- Shadow Texture
- Granite
- Sable
- Expresso Texture
- Black
- Bone
- Tobacco Texture
- Stone Texture
- Charcoal

MANUAL ENCLOSURE COMPARISON CHART

	Southern Patio Enclosures	Competitors
Wind Strength	**Rated at 45 mph** • Commonly will withstand up to 60 mph on smaller (8x10) openings.	**Often fail below 30 mph**
Operations	**Hand Roll or Rope & Pulley** • Complete articulation on all 4 sides of curtain • Complete wind & rain blockage • Complete debris, mold, dust & pollen blockage	**Horizontal Slide or Weight-Bar System** • Curtain panels don't seal completely at top and/or sides • Gaps allow wind, rain & cold in • Horizontal slide gaps appear at the top • Weight-bar system gaps at the sides allowing debris, wind, rain to enter enclosure
Anchoring	**D-Rings** • Curtains secured at multiple points • Extra strength & security for strong winds • Low profile D-rings for foot traffic safety	**Snaps or No Anchors** • Unanchored curtains flex and tear in mild winds • Snap systems don't allow for shrinkage • Unanchored curtains lead to costly patio repairs
Panel Size	**Up to 12′ high or 12′ wide*** • Over 50 years of combined manufacturing experience allow us to offer the largest panel size that promotes customer safety & user ability • Can zip together to span widths of up to 60′ • Wider size prevents need to add posts • Easily operated by single staff member	**Added-Risks & User Difficulties** • Competitors who don't limit curtain sizes on manual curtains risk extensive damage & the safety of restaurant patrons • Too-large curtains will require multiple staff members to operate
Window Size	**Up to 10′ high or 12′ wide*** • Bigger, wider outdoor patio • Window-free option to hide unsightly scenery	**4′5″ high & 9′ wide** • Restricted views • Many competitors unable to do clear-to-clear seam, limiting window size
Fabric	**Vinyl** • Made for strength • Handles weather & friction better than cloth fabric	**Cloth** • Often deteriorates from sun and abrasion • Even premium canvas brands only last 5 years
Seams	**Welded Seams** • Vinyl-to-vinyl construction • Reinforced strength at highest stress points • See-through clear-to-clear seams • Bar Welder / Sonic Weld	**Stitched Seams or Lower-Quality Weld** • Stitched perforations (like notebook paper) causes rips in even slight winds • Rolling Heat Sealer can cause clouding or bubbling in seam
Service	**Nationwide Service** • Service provided after the sale • Multi-unit customers able to standardize product over multiple locations	**Regional Service** • Smaller, local companies • Unable to standardize product over multiple locations due to geographic limitations

* Speak to your sales representative about options for taller or wider openings

MOTORIZED ENCLOSURES

Our Motorized Patio Enclosures are easy and quick to operate, built to be as seamless and invisible as possible and deploy quickly with the push of a button. This allows you to protect your customers on a moment's notice without interrupting their experience.

Surrounded by all metal housing and tracks, our enclosures include thick rope welting sides that slide into the side tracks like the mainsail on a sailboat. This locks the curtain into its tracks where it cannot slip out under wind pressures like our competitors' motorized zippered systems would. With a reinforced roll tube across the top and the heaviest bottom weight bar in the industry, we are able to expand the size of our curtains larger than any of our competitors.



Vinyl Options



Sun Shade Options

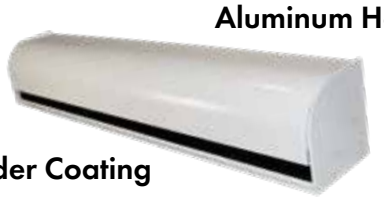
Vinyl Color Options

White
Yellow
Orange
Red
Tan
Green
Lime
Light Blue
Royal Blue
Navy
Dark Purple
Grey
Brown
Charcoal
Black

Sun Shade Colors

White
Shadow Texture
Granite
Sable
Expresso Texture
Black
Bone
Tobacco Texture
Stone Texture
Charcoal

Aluminum Hood



Aluminum Powder Coating

White
Black
Bronze
Sandstone
Almond
Sierra Tan
Slate Grey
Taupe

MOTORIZED ENCLOSURE COMPARISON CHART

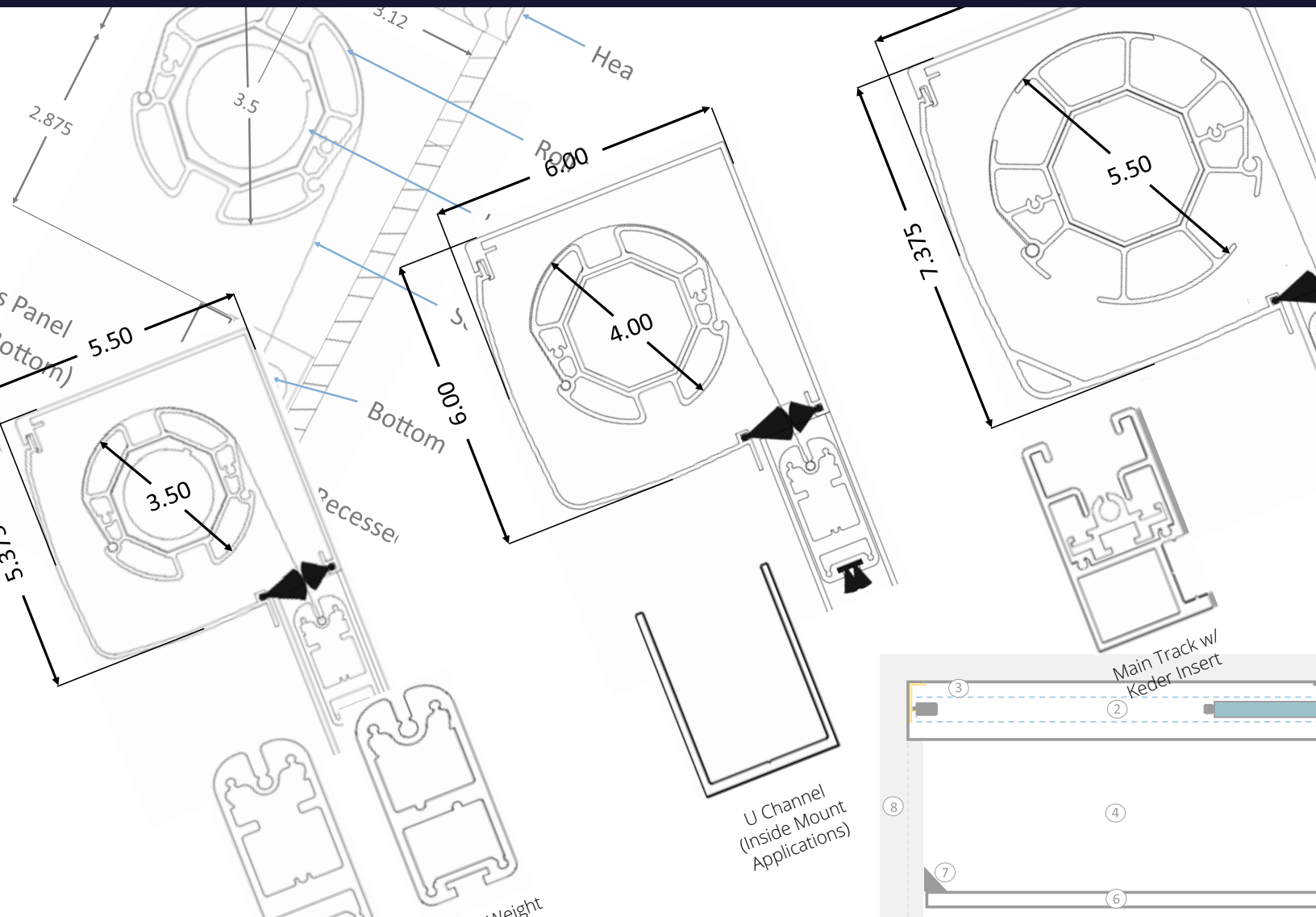
	Southern Patio Enclosures	Competitors
Wind Strength	**Warrantied to 65 mph** • Tested to 85 mph* on small clear units such as 8 ft x 10 ft.	**Often fail between 30-45 mph**
Curtain/Track Articulation	**Keder System** • Curtain edges held tightly in track with Keder • Virtually 100% stay-put assurance • Allows for higher wind rating	**Zipper Track or Cable System** • Less stable, less secure hold • Curtains more likely to pop out, causing safety concerns for staff & restaurant patrons • Cable system gaps at the sides allowing debris, wind, rain to enter enclosure
Track Components	**Powder Coated Aluminum** • Long-lasting, stronger material • More secure in wind • Allows for higher wind rating	**Plastic or Thin Gage Metal** • More susceptible to wind damage • Less durable over time
Panel Size	**Up to 25′ wide or 16′ high**** • Allows for ultimate safety and aesthetics • More flexibility with custom designs • Reinforced tube allows for wider & taller curtain	**Max 12′ wide and 12′ high** • More seams showing • Less stability and strength • Unreinforced tube limits height & width
Window Size	**Up to 23′ wide or 9′ high**** • MaxView curtain option allows for largest window in the industry • Bigger, clearer windows than competitors	**Max 4′6″ high** • Smaller windows • Less pleasing patio views
Fabric	**Vinyl** • Made for strength • Handles weather and friction better than cloth fabric	**Cloth** • Often deteriorates from sun and abrasion • Even premium canvas brands only last 5 years
Seams	**Welded Seams** • Vinyl-to-vinyl construction • Reinforced strength at highest stress points • See-through clear-to-clear seams • Bar Welder / Sonic Weld	**Stitched Seams or Lower-Quality Weld** • Stitched perforations (like notebook paper) causes rips in even slight winds • Rolling Heat Sealer can cause clouding or bubbling in seam
Service	**Nationwide Service** • Service provided after the sale • Multi-unit customers able to standardize product over multiple locations	**Regional Service** • Smaller, local companies • Unable to standardize product over multiple locations due to geographic limitations

*Small clear units are up to 100 sq ft, 15 ft wide and 10 ft tall.
Nano 97/99 shade units with no clear window are tested to 110 mph within size limits.
**Speak to your sales representative about options for taller or wider openings

Southern™ PATIO ENCLOSURES

TECHNICAL APPENDIX

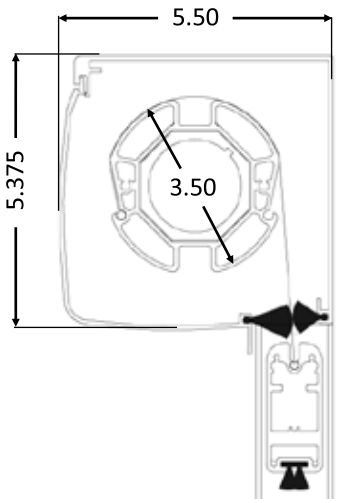
- Manual & Motorized Enclosure Specifications
- Window and Door Specifications
- Color & Sample Charts



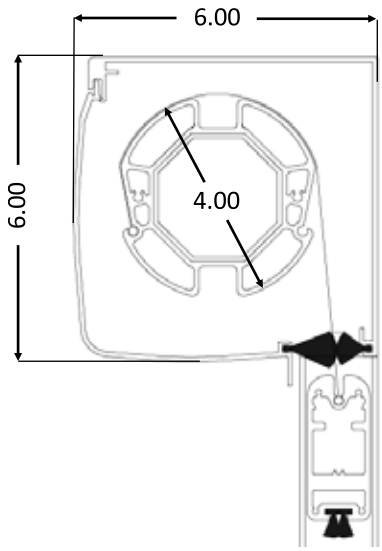
Motorized Enclosures

SYSTEM OVERVIEW

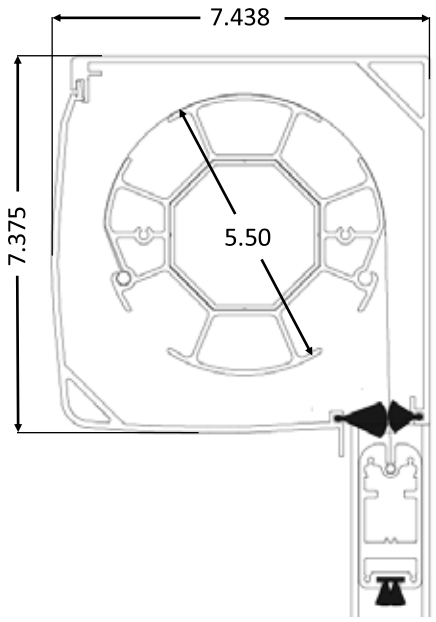
SERIES 5
192″ WIDTH X 120″ HEIGHT

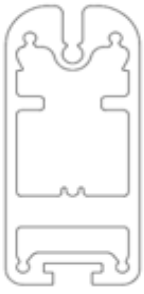


SERIES 6
240″ WIDTH X 144″ HEIGHT

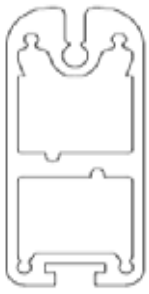


SERIES 7
300″ WIDTH X 192″ HEIGHT

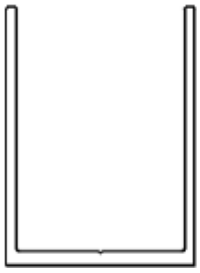




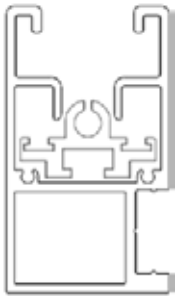
Heavy Duty Bottom Bar



Double Weight Bottom Bar



U Channel (Inside Mount Applications)



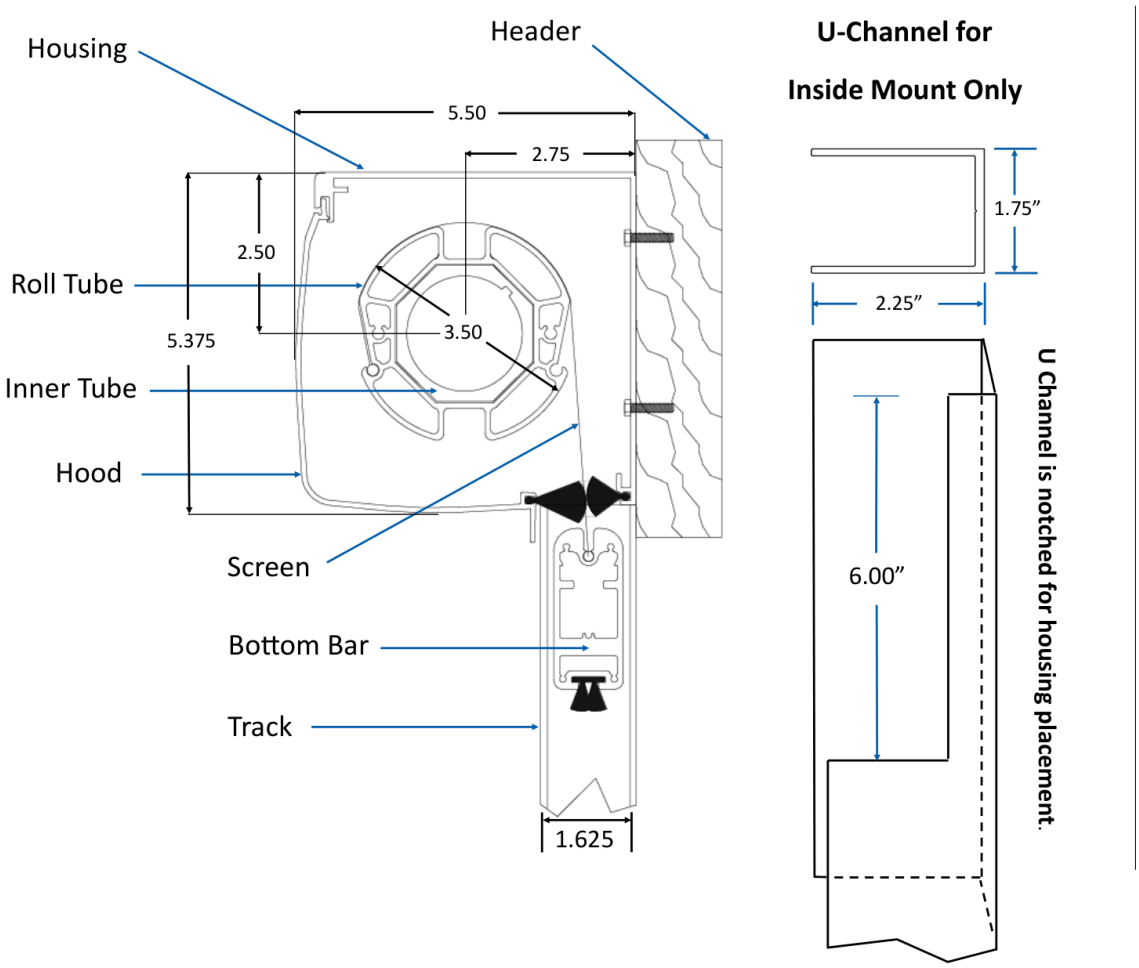
Main Track w/ Keder Insert

Product Features

- ★ Keder retention track system is the strongest on the market.
- ★ All aluminum track insert-no wearing parts.
- ★ Nano 97/99 shade units with no clear window tested to 110 mph within size limits. Every motorized unit is warrantied to 65 mph.
- ★ Flexible inner track for proper shade deployment.
- ★ Heavy duty weight bar plus a double weight bar for smaller shades.
- ★ 1 1/2″ bottom bar brush.
- ★ Reinforced fabric flag corner for additional strength.
- ★ 3 Housing sizes for shades from 3 ft up to 25 ft in width and up to 16 ft in height.
- ★ Hood and housing brush for self cleaning.
- ★ 8 standard stock colors.
- ★ Stylish hood to match any décor.
- ★ Able to handle sloping patios
- ★ Specializing in clear vinyl windows.

SERIES 5 HOUSING

FACE MOUNT (FM)



Notes:

Series 5 – 192” Max Width 120” Max Height

Housing endcaps must be secured properly as they are the load bearing point of the system. On longer units, it is recommended to secure the housing to avoid any rattling noises. When securing the housing, NEVER PLACE FASTENERS IN THE MIDDLE OF THE HOUSING. (TOP OR BACK)

U-Channel – Inside mount

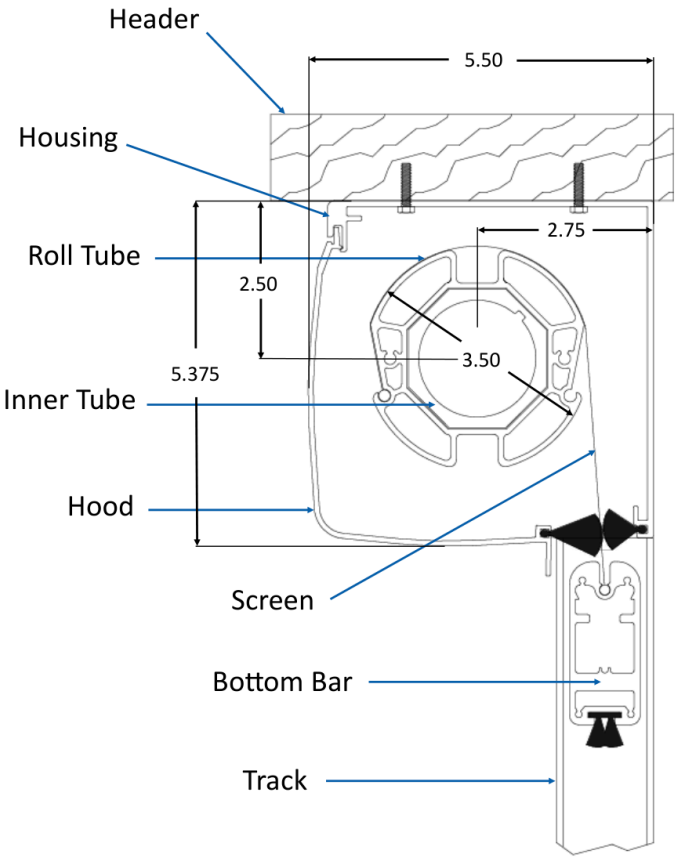
- Each U channel is notched at the factory. The notch is for the housing to sit inside.
- It goes from the bottom of the shade to the top of the housing.
- It allows for uneven surfaces between columns or walls.
- Factory deduction is 1 1/4" from inside mount measurements.
- The U-Channel hides the gap between the housing and wall or column.

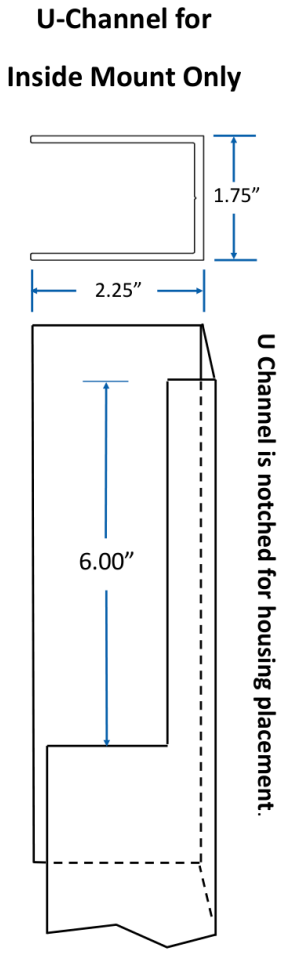
Hardware color:

Housing, tracks and bottom bar are powder-coated aluminum in the hardware color chosen on the quote: White, Black, Bronze, Slate Gray, Sandstone, Almond, Sierra Tan or Taupe. All three match.

SERIES 5 HOUSING

TOP MOUNT (TM)





Notes:

Series 5 – 192” Max Width 120” Max Height

Housing endcaps must be secured properly as they are the load bearing point of the system. On longer units, it is recommended to secure the housing to avoid any rattling noises. When securing the housing, NEVER PLACE FASTENERS IN THE MIDDLE OF THE HOUSING. (TOP OR BACK)

U-Channel – Inside mount

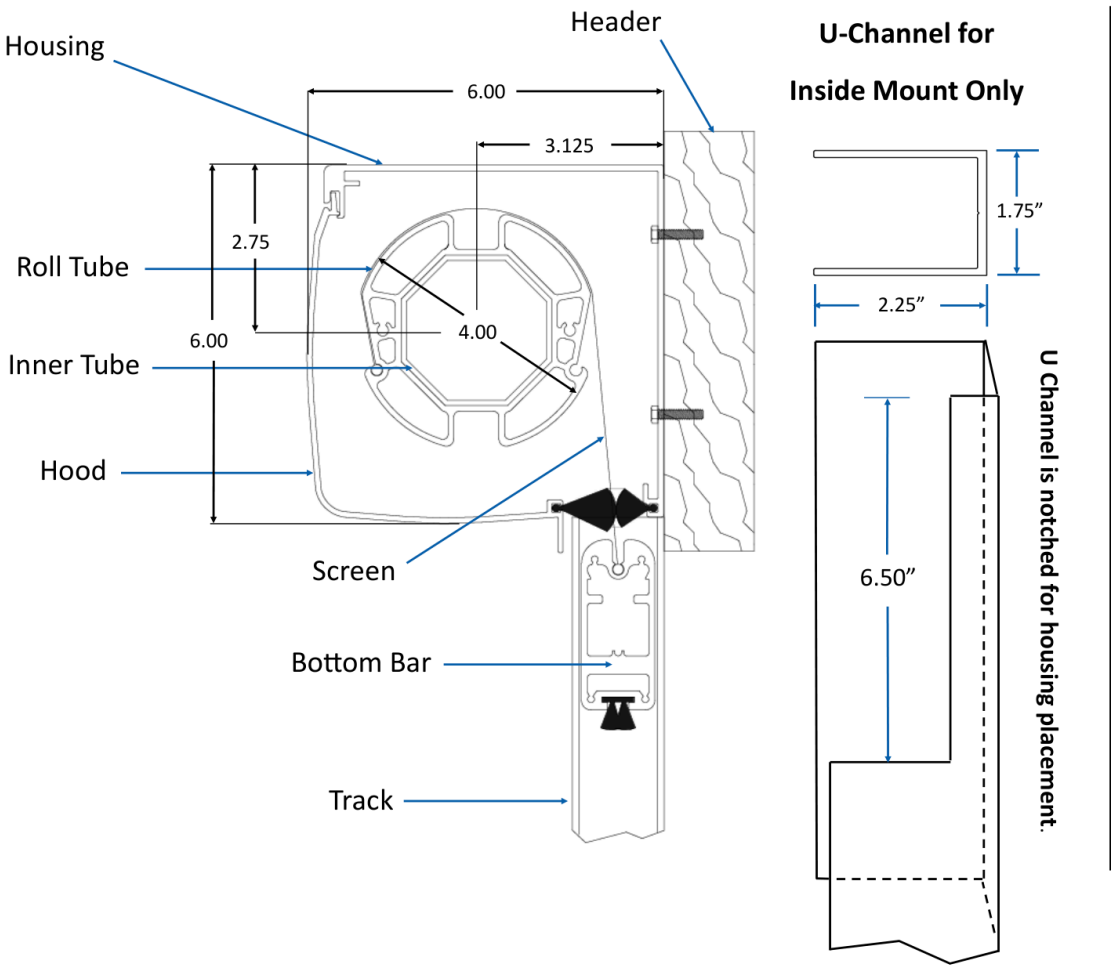
- Each U channel is notched at the factory. The notch is for the housing to sit inside.
- It goes from the bottom of the shade to the top of the housing.
- It allows for uneven surfaces between columns or walls.
- Factory deduction is 1 1/4" from inside mount measurements.
- The U-Channel hides the gap between the housing and wall or column.

Hardware color:

Housing, tracks and bottom bar are powder-coated aluminum in the hardware color chosen on the quote: White, Black, Bronze, Slate Gray, Sandstone, Almond, Sierra Tan or Taupe. All three match.

SERIES 6 HOUSING

FACE MOUNT (FM)



Notes:

Series 6 – 240” Max Width 144” Max Height

Housing endcaps must be secured properly as they are the load bearing point of the system. On longer units, it is recommended to secure the housing to avoid any rattling noises. When securing the housing, NEVER PLACE FASTENERS IN THE MIDDLE OF THE HOUSING. (TOP OR BACK)

U-Channel – Inside mount

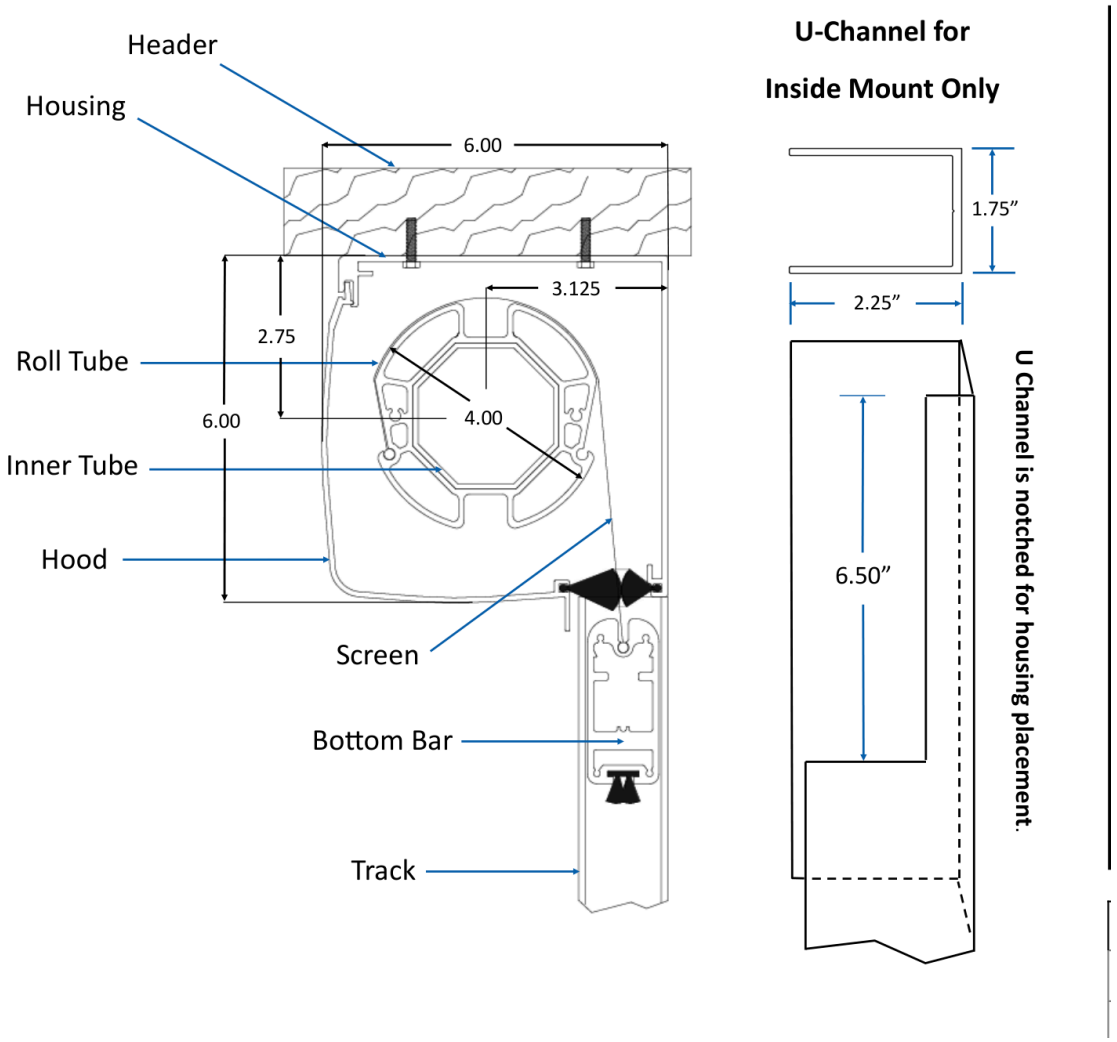
- Each U channel is notched at the factory. The notch is for the housing to sit inside.
- It goes from the bottom of the shade to the top of the housing.
- It allows for uneven surfaces between columns or walls.
- Factory deduction is 1 1/4" from inside mount measurements.
- The U-Channel hides the gap between the housing and wall or column.

Hardware color:

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SERIES 6 HOUSING

TOP MOUNT (TM)



Notes:

Series 6 – 240” Max Width 144” Max Height

Housing endcaps must be secured properly as they are the load bearing point of the system. On longer units, it is recommended to secure the housing to avoid any rattling noises. When securing the housing, NEVER PLACE FASTENERS IN THE MIDDLE OF THE HOUSING. (TOP OR BACK)

U-Channel – Inside mount

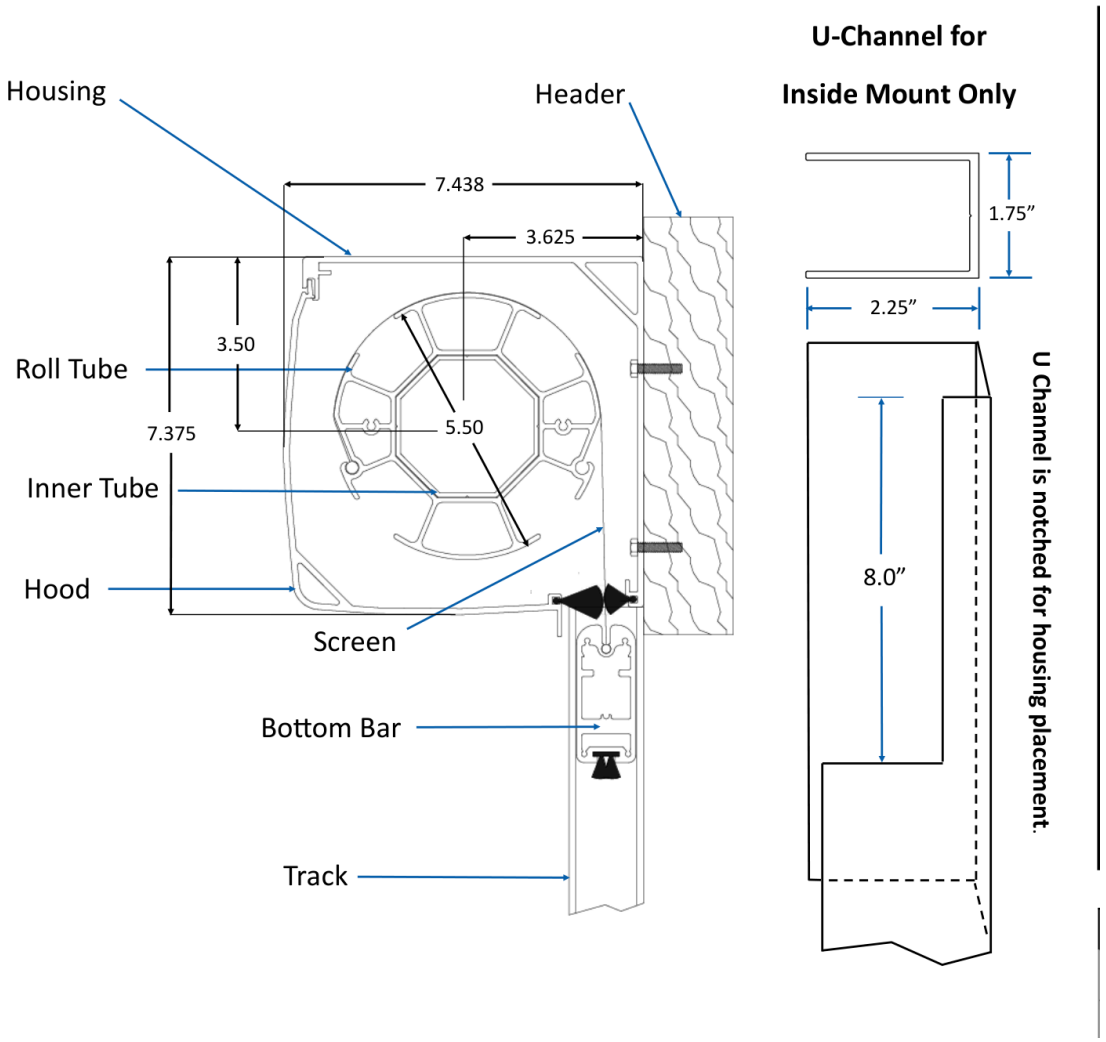
- Each U channel is notched at the factory. The notch is for the housing to sit inside.
- It goes from the bottom of the shade to the top of the housing.
- It allows for uneven surfaces between columns or walls.
- Factory deduction is 1 1/4" from inside mount measurements.
- The U-Channel hides the gap between the housing and wall or column.

Hardware color:

Housing, tracks and bottom bar are powder-coated aluminum in the hardware color chosen on the quote: White, Black, Bronze, Slate Gray, Sandstone, Almond, Sierra Tan or Taupe. All three match.

SERIES 7 HOUSING

FACE MOUNT (FM)



Notes:

Series 7 – 300” Max Width 192” Max Height

Housing endcaps must be secured properly as they are the load bearing point of the system. On longer units, it is recommended to secure the housing to avoid any rattling noises. When securing the housing, NEVER PLACE FASTENERS IN THE MIDDLE OF THE HOUSING. (TOP OR BACK)

U-Channel – Inside mount

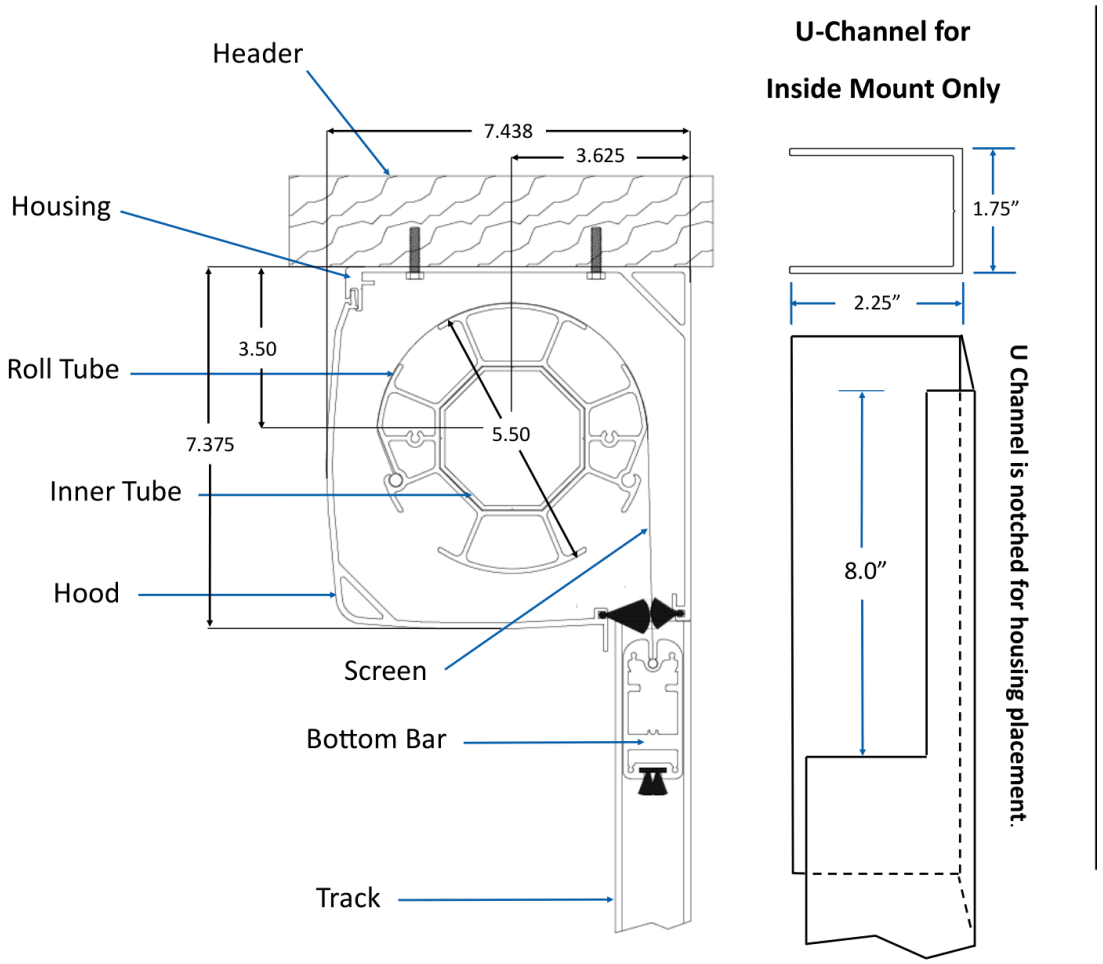
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- It goes from the bottom of the shade to the top of the housing.
- It allows for uneven surfaces between columns or walls.
- Factory deduction is 1 1/4" from inside mount measurements.
- The U-Channel hides the gap between the housing and wall or column.

Hardware color:

Housing, tracks and bottom bar are powder-coated aluminum in the hardware color chosen on the quote: White, Black, Bronze, Slate Gray, Sandstone, Almond, Sierra Tan or Taupe. All three match.

SERIES 7 HOUSING

TOP MOUNT (TM)



Notes:

Series 7 – 300” Max Width 192” Max Height

Housing endcaps must be secured properly as they are the load bearing point of the system. On longer units, it is recommended to secure the housing to avoid any rattling noises. When securing the housing, NEVER PLACE FASTENERS IN THE MIDDLE OF THE HOUSING. (TOP OR BACK)

U-Channel – Inside mount

- Each U channel is notched at the factory. The notch is for the housing to sit inside.
- It goes from the bottom of the shade to the top of the housing.
- It allows for uneven surfaces between columns or walls.
- Factory deduction is 1 1/4" from inside mount measurements.
- The U-Channel hides the gap between the housing and wall or column.

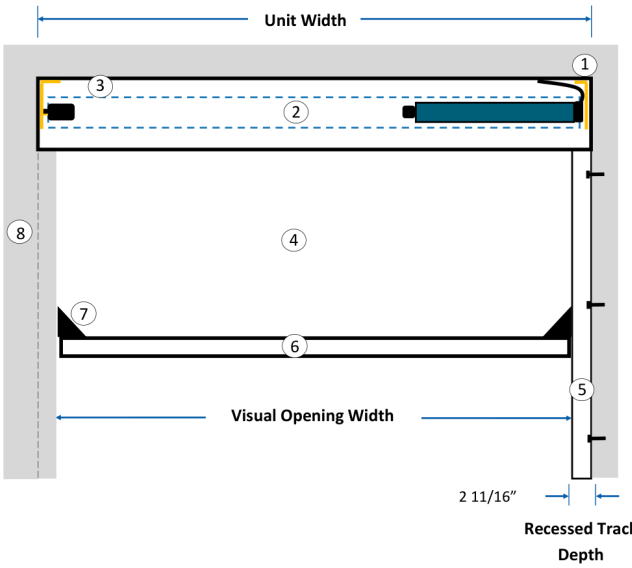
Hardware color:

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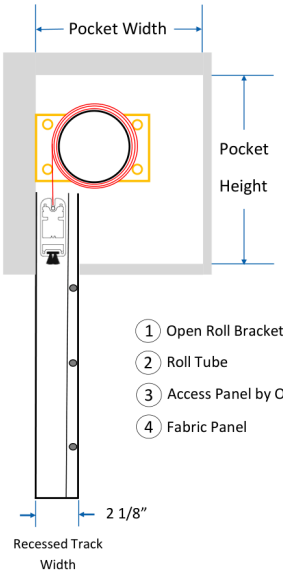
RECESSED TRACK DETAIL

Front View

Unit Width = Visual Opening Width + Recessed Track Depth x 2 (5.375)



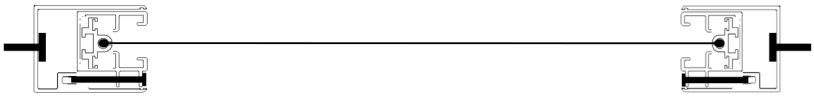
Side View and Pocket Detail



Pocket Size	Width	x	Height
Series 5 (192" x 120")	7"	x	10.5"
Series 6 (240" x 144")	8"	x	11.5"
Series 7 (300" x 192")	10"	x	12.5"

1. Open Roll Bracket
2. Roll Tube
3. Access Panel by Others
4. Fabric Panel
5. Recessed Track
6. Bottom Bar
7. Gusset Flag
8. Column by Others

Side Track Detail



Notes:

Unit width = visual opening width + recessed track depth × 2 (5.375")

Series	Pocket W	Pocket H
Series 5 (192" × 120")	7"	10.5"
Series 6 (240" × 144")	8"	11.5"
Series 7 (300" × 192")	10"	12.5"

Provided by others

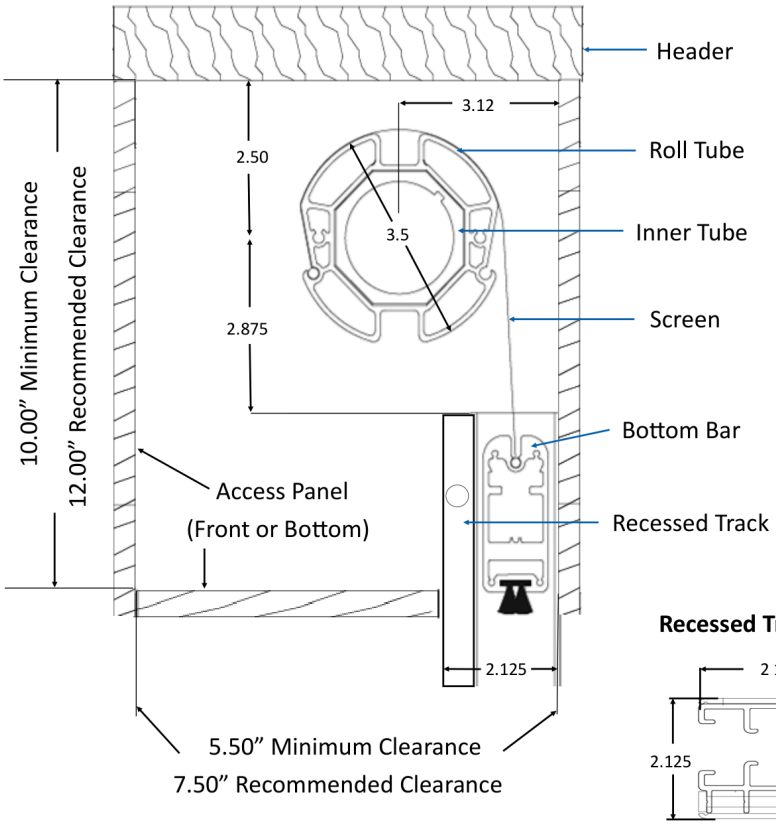
- Pocket, access panel (front or bottom) and columns.
- Recessed track depth 2 11/16", width 2 1/8".
- Minimum clearance 5.50" side and 10.00" height; 7.50" and 12.00" recommended.
- Access panel must remain reachable for service.

Hardware color:

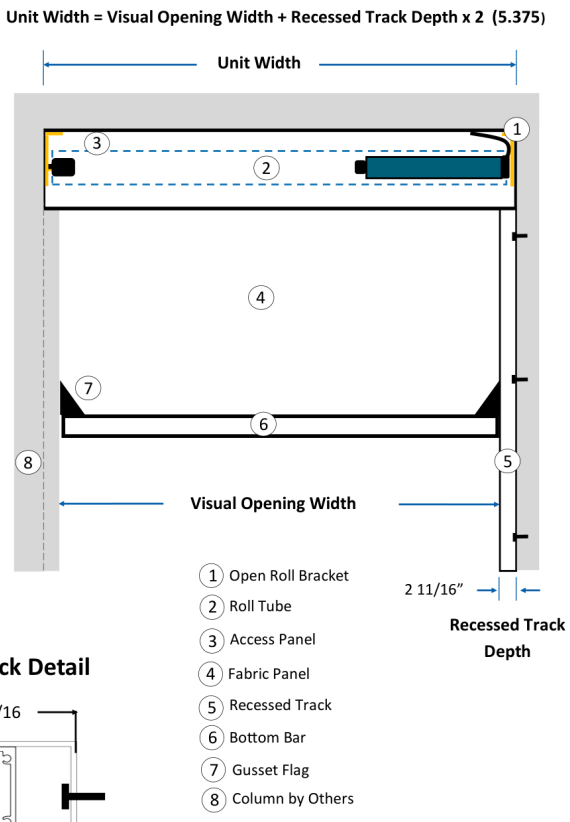
Housing, tracks and bottom bar are powder-coated aluminum in the hardware color chosen on the quote: White, Black, Bronze, Slate Gray, Sandstone, Almond, Sierra Tan or Taupe. All three match.

SERIES 5 RECESSED

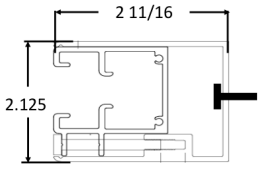
Side View and Pocket Detail



Front View



Recessed Track Detail



Notes:

Series 5 Recessed – 192" Max Width 120" Max Height

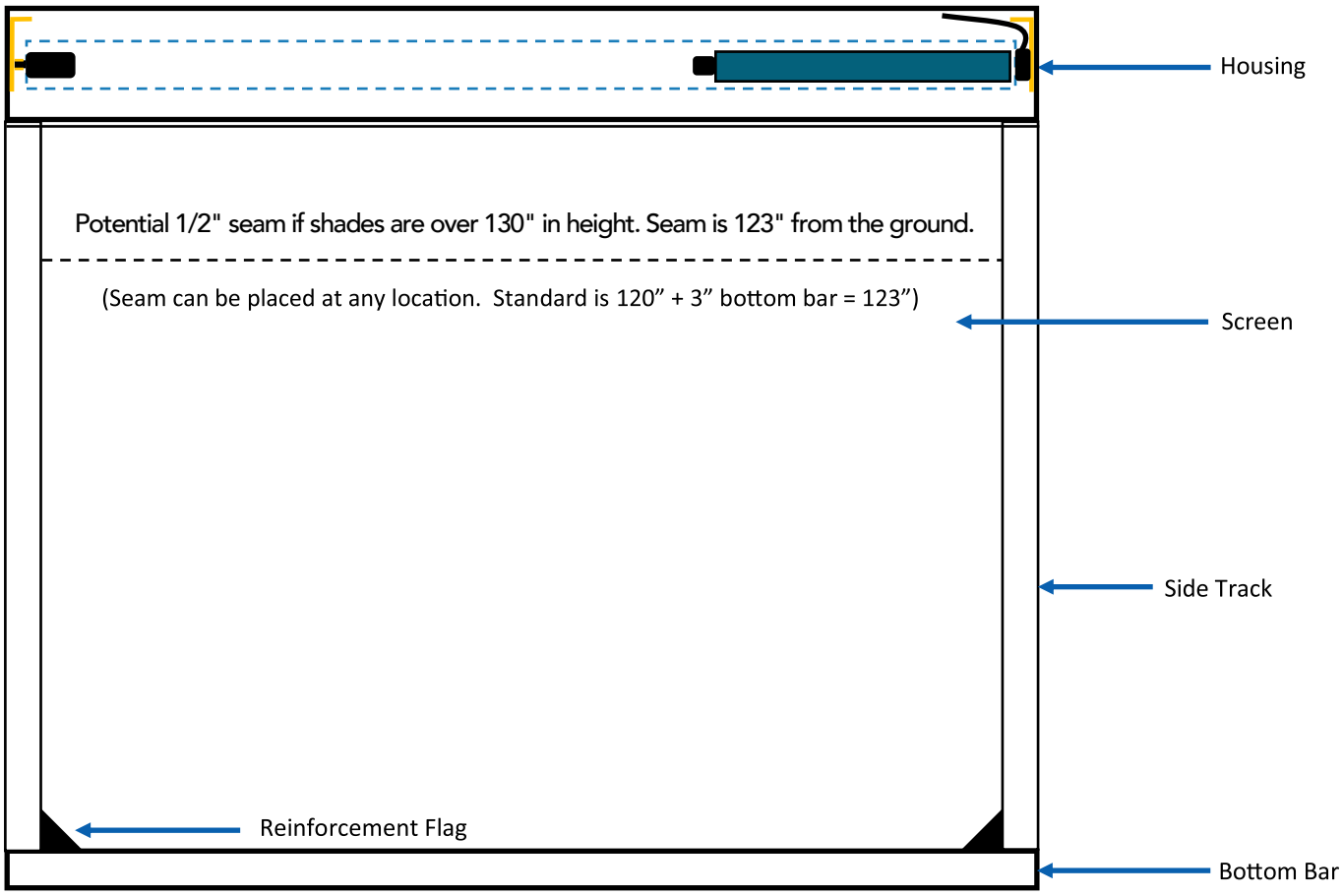
- 10.00" minimum clearance above the opening, 12.00" recommended.
- 5.50" minimum side clearance, 7.50" recommended.
- Access panel may be front or bottom and is provided by others.
- Housing endcaps must be secured properly as they are the load bearing point of the system. On longer units, it is recommended to secure the housing to avoid any rattling noises. When securing the housing, NEVER PLACE FASTENERS IN THE MIDDLE OF THE HOUSING. (TOP OR BACK)

Hardware color:

Housing, tracks and bottom bar are powder-coated aluminum in the hardware color chosen on the quote: White, Black, Bronze, Slate Gray, Sandstone, Almond, Sierra Tan or Taupe. All three match.

CLEAR VINYL WINDOW CONFIGURATIONS

VERTICAL CONFIGURATION



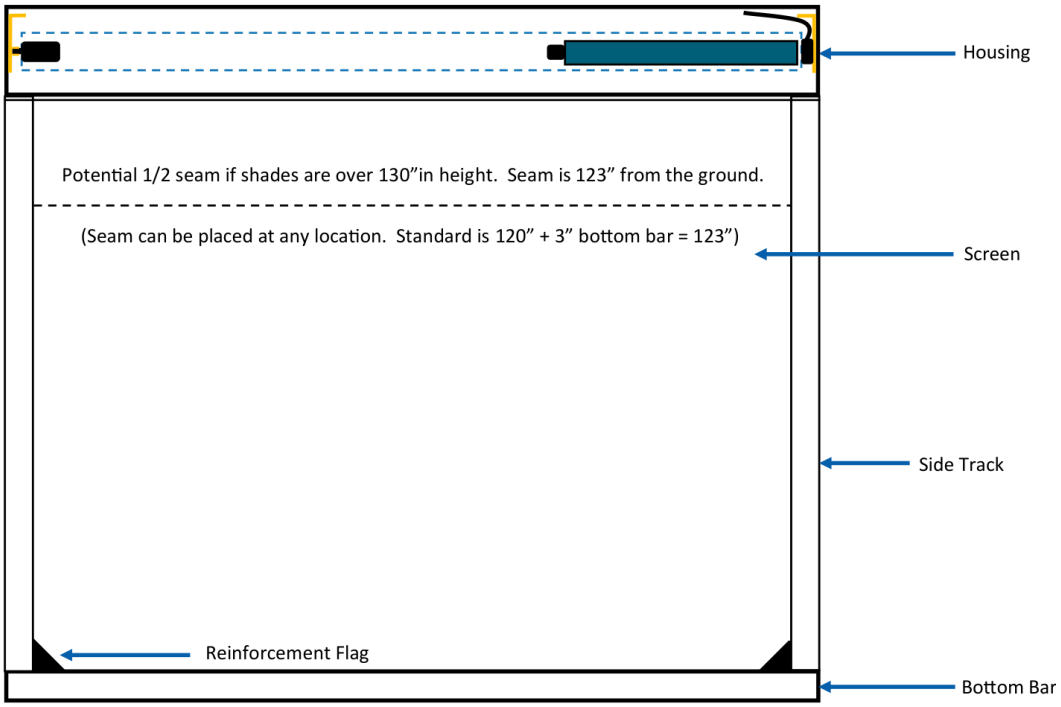
Notes:

- Clear Vinyl Panels are 54"x110"
- Minimum border size is 6"
- Solid and Shade vinyls can be used as a border

Housing endcaps must be secured properly as they are the load bearing point of the system. On longer units, it is recommended to secure the housing to avoid any rattling noises. When securing the housing, NEVER PLACE FASTENERS IN THE MIDDLE OF THE HOUSING. (TOP OR BACK)

	Max Width	Max Height
Series 5	192"	120"
Series 6	216"	132"
Series 7	276"	180"

INSECT SCREEN & SUN SHADE CONFIGURATION



Notes:

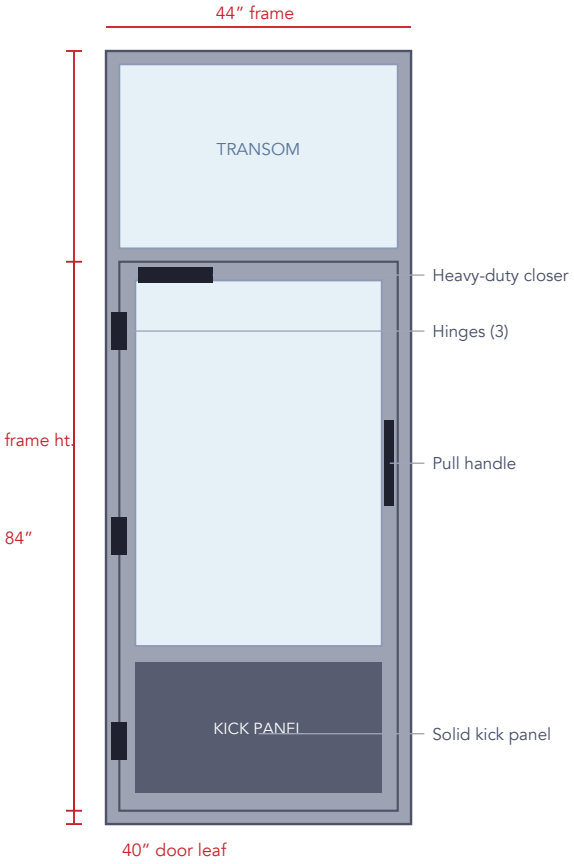
Series	Max Width	Max Height
Series 5	192”	120”
Series 6	240”	144”
Series 7	300”	192”

Seams

- Potential 1/2” seam if the shade is over 130” in height; the seam sits 123” from the ground.
- The seam can be placed at any location. Standard is 120” + 3” bottom bar = 123”.
- Housing endcaps must be secured properly as they are the load bearing point of the system. On longer units, it is recommended to secure the housing to avoid any rattling noises. When securing the housing, NEVER PLACE FASTENERS IN THE MIDDLE OF THE HOUSING. (TOP OR BACK)

EGRESS DOORS

Welded 2×2 steel frame, powder coated to match the enclosure. Glazed upper, solid kick panel, heavy-duty closer. Sizes below are typical and are confirmed at the design consultation.



Standard specification

- Welded 2×2 steel tube frame, fully welded corners.
- Powder coated (Tiger Drylac) to match the enclosure hardware.
- Glazed upper with a solid kick panel below; full-clear and full-solid are options.
- Heavy-duty commercial door closer, self-closing.
- Three heavy-duty hinges; door stops top and bottom.
- Pull handle outside, push to exit inside.
- Opens outward for egress. Swing and hinge side set at the design consultation.
- Transom above the door is plexi or solid powder-coated sheet metal.

Installed

ELECTRICAL SPECIFICATIONS

Simu Type 5 Hz-02 Plus tubular motors, 120V – 60Hz AC. Issued for electrician bidding and installation. Motors are plug-in and are not hardwired.

Motor overview

- Diameter 47 mm (≈ 2.0 in.) — fits standard commercial roller tubes.
- Integrated radio receiver (Simu-Hz, compatible with Somfy RTS).
- Electronic limit setting, set by remote. No hard limit switches required.
- Standard 8 ft motor power cable, 3-conductor, with the antenna in the pigtail.
- SPE installs a standard 3-prong plug on the end of each motor pigtail.
- Built-in electric brake and thermal protection. Continuous run time ≈ 3–5 minutes.
- Approvals: UL Recognized • CSA Approved • FCC Approved • IP44 rated.

The motor we use

Simu Type 5 Hz-02 Plus

Reference 2005137 • 120V – 60Hz AC • 47 mm diameter

440 in-lb	50 Nm	12 rpm	250 W	2.1 A	3–5 min
TORQUE	TORQUE (METRIC)	SPEED	POWER	CURRENT DRAW	CONTINUOUS RUN

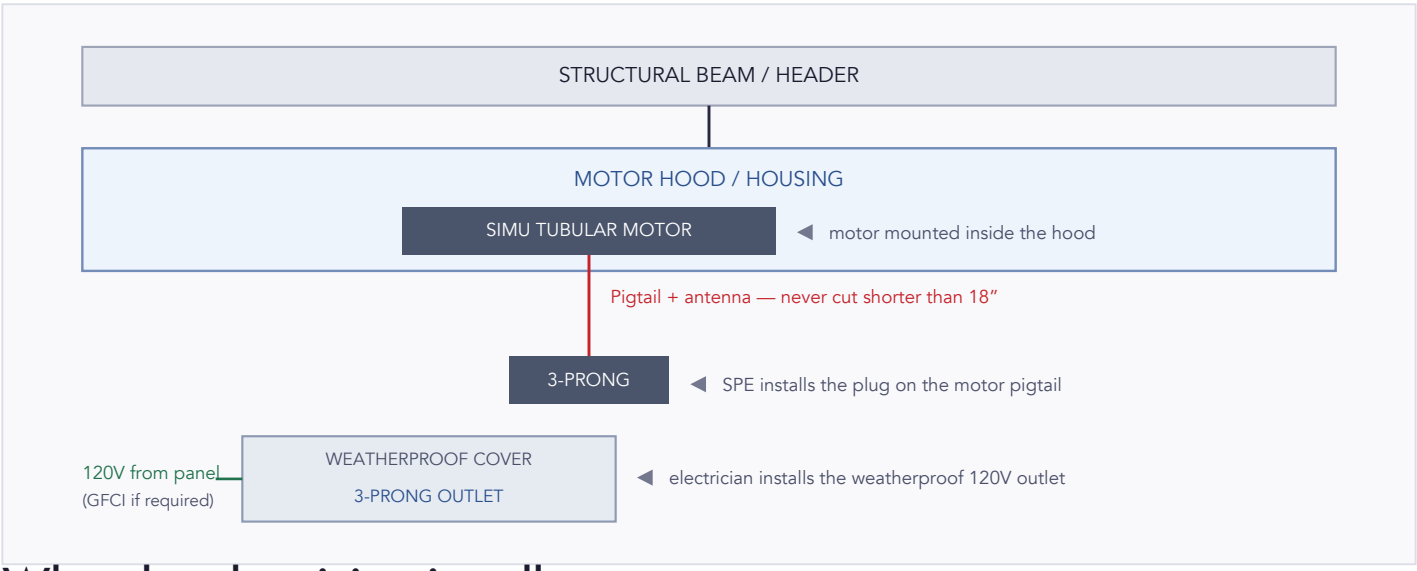
Electronic limit setting, integrated radio receiver, built-in brake and thermal protection. Other torque ratings in the same Simu family are available where a panel calls for it; the final selection is confirmed at engineering.

Typical electrical requirements (for bidding)

Item	Requirement
Power supply	120V AC, 60 Hz, single phase
Outlet	Weatherproof 3-prong receptacle with flip cover near each motor location
Circuit	Dedicated 15A or 20A circuit recommended. GFCI if outdoor or exposed.
Wire	Standard branch circuit wiring to the weatherproof outlet
Per motor load	Up to ≈ 2.1 A / 250 W on the largest models. Most panels draw 1.0–1.6 A.
Control	Wireless radio. No low-voltage control wiring required.
Motor cord	Do not shorten below 18". The antenna is in the pigtail.
Connection	Motor plugs into the weatherproof outlet. No hardwiring required.

ELECTRICAL LOCATION & CONNECTION

The electrician provides a weatherproof 120V outlet near each motor. Southern Patio Enclosures arrives with a 3-prong plug already installed on the motor pigtail and plugs in.



What the electrician installs



In-use cover, cord plugged in



Duplex, individual flip covers



Box with clear bubble cover



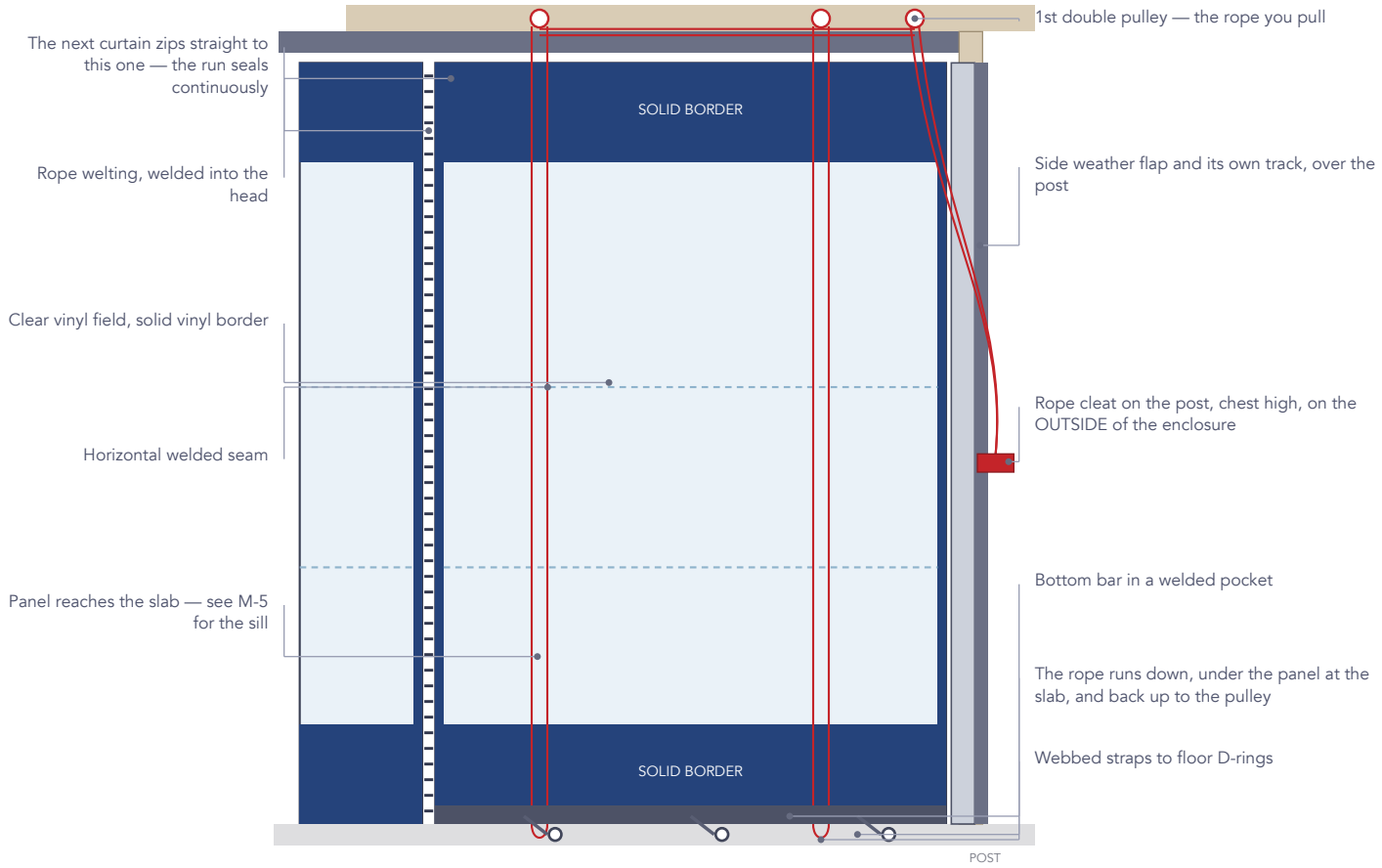
Single outlet, flip cover

Key points

- Motors are NOT hardwired. SPE terminates the pigtail with a standard 3-prong plug.
- The electrician provides a weatherproof 120V 3-prong outlet near each motor location.
- Electric should be mounted above the housing mount location, within 18”.
- The antenna is built into the pigtail. If the cord must be shortened, keep at least 18” of the original pigtail, then add the plug.
- Outdoor and damp locations require GFCI protection per NEC.
- No low-voltage or control wiring is needed. The motors are radio controlled.

SYSTEM OVERVIEW

Rope-and-pulley or hand-rolled roll-up curtains. The curtain hangs from a top track by a welded rope welting, rolls from the bottom up, and ties down to floor D-rings when deployed.



The panel reaches the ground, and still does in year five.
Horizontal seams hold the width, so the bottom bar keeps meeting the slab and wind never gets underneath.

Supplied with every curtain

- ★ Curtain, numbered, with weather flaps zipped to it.
- ★ Top track and side weather-flap track, numbered and located.
- ★ Bottom bar and welded bottom pocket.
- ★ D-rings, and all concrete, wood or metal screws.

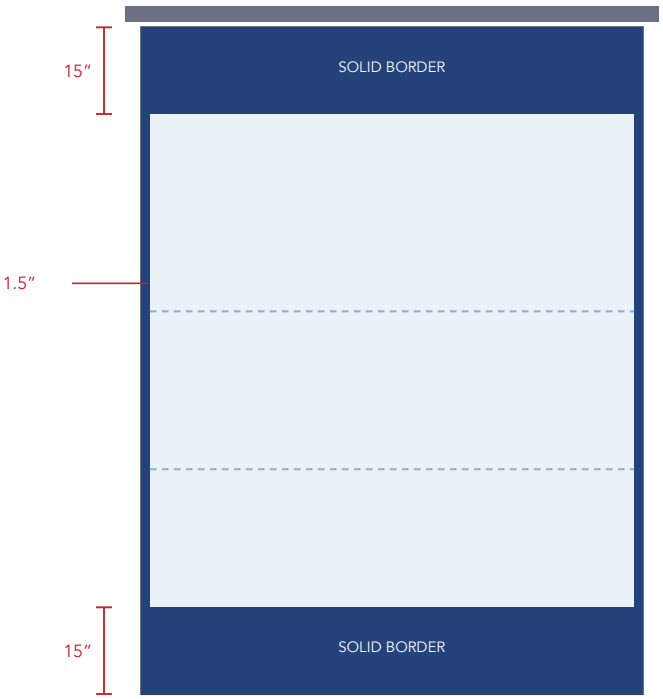
Rope & pulley only

- ★ 2 double pulleys, 1 single pulley, rope, cleat.
- ★ Pole hook, to reach the zipper at full height.
- ★ Hand-rolled instead uses velcro straps — see M-4.

CURTAIN LAYOUT OPTIONS

Two layouts. Borders are solid vinyl or sun shade and may differ in color from the window field at no extra cost. Final trim sizes are set at the design consultation.

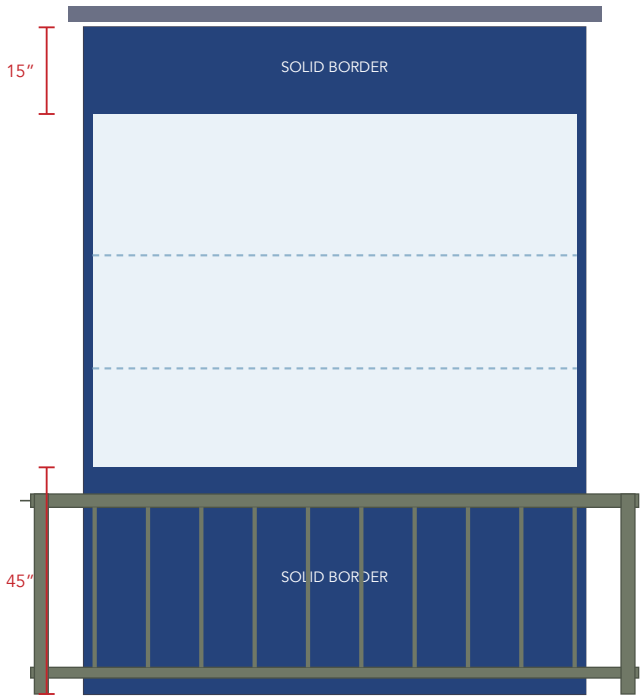
Option 1 — MaxView



15″ top / 15″ bottom

The largest window the manual system carries. The standard choice with no rail in the way.

Option 2 — Handrail



15″ top / 45″ bottom

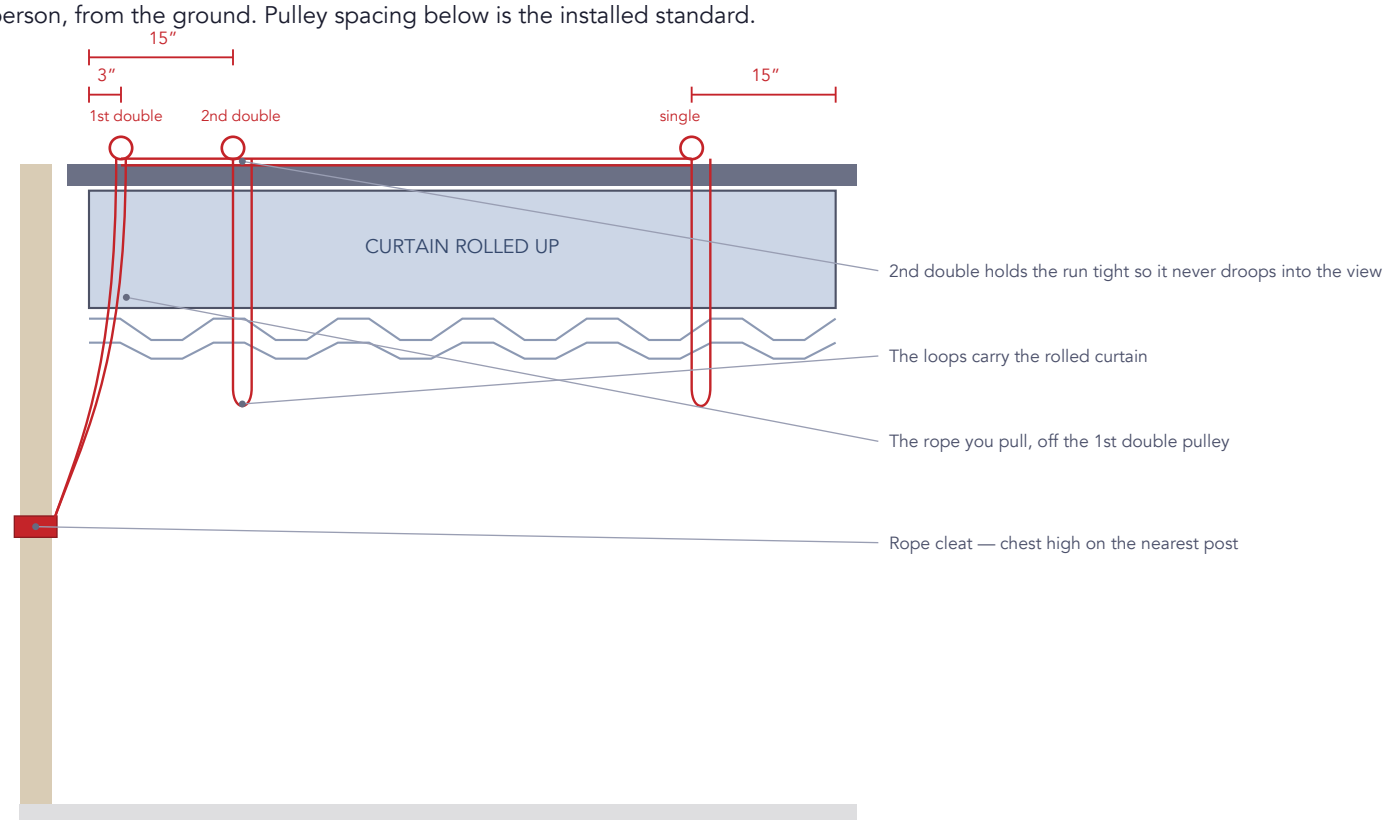
Where a handrail runs the perimeter. The solid bottom lands above the rail so the clear window is not looking at pickets.

Notes:

- Side trim is 1.5″. Minimum border on any edge is 6″.
- The 15″ top border is not decoration. When the panel is rolled all the way up the rope sits against it, so the solid takes the sun and the rope chafe instead of the clear vinyl.
- Seams run HORIZONTAL on a manual roll, always. Manual is built from roll vinyl, which relaxes about 2% across the width in service; horizontal seams keep that movement out of the seam.
- This is why our panels still reach the ground years later. A panel seamed VERTICALLY shrinks along its height, lifts off the slab and leaves a gap for wind to blow under. Ours does not.
- Filler flaps are supplied to take up that width later, so the zippers still close in year three.
- There is no third layout. A 3″ top border is not sold on the manual system.
- Sun shade panels are often quoted with no clear window at all.

ROPE & PULLEY OPERATION

One person, from the ground. Pulley spacing below is the installed standard.



Notes:

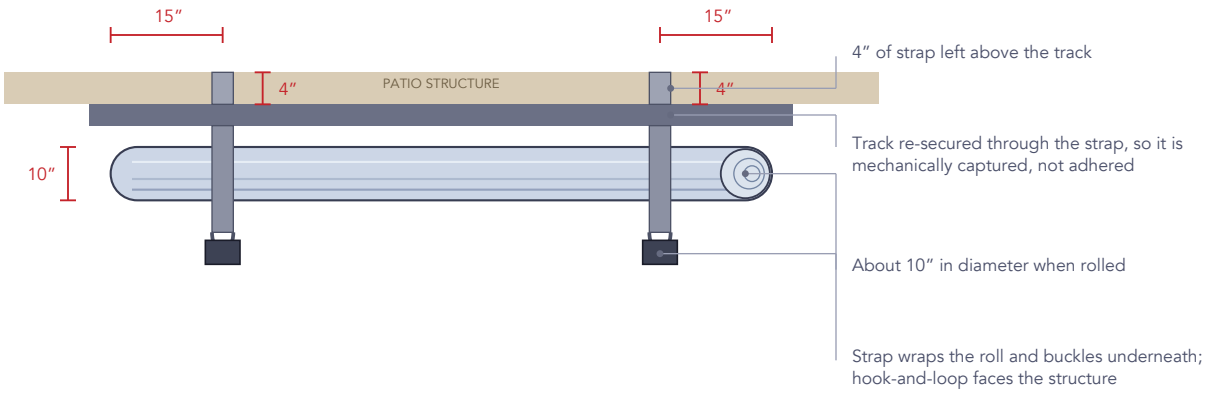
- The rope loops are what hold the curtain up once it is rolled. The 15″ top border takes that load: it keeps sun and rope chafe off the clear vinyl when the panel is rolled all the way up.
- The cleat end is the end you can still reach with the curtains DOWN — an open end or a post on the outside, never through the next panel.
- 1st double pulley 3″ from the end of the track, on the cleat side.
- 2nd double pulley 15″ from that same end.
- Single pulley 15″ from the opposite end.
- Three rope loops result: one to the cleat, one under the 2nd double, one under the single.

Roll direction

- Pulleys ABOVE the track: the curtain rolls toward you.
- Pulleys BELOW the track: the curtain rolls away from you.
- Set at the design consultation. Allow 1/2″ above the track when mounting above.
- Roll by hand to chest height first, then take up the rope. Panels over 10′ wide take two people.

HAND-ROLLED OPTION

No rope, no pulleys. The curtain is rolled by hand and held by velcro straps that are captured behind the track and wrap right around the roll. Chosen where a cleat and rope would be in the way.



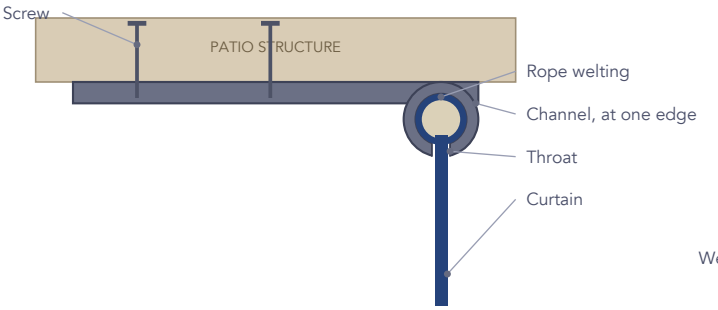
Notes:

- Two velcro straps per curtain, 15″ in from each edge of the curtain track.
- The strap slides behind the track with about 4″ left above it, then the track is re-secured through the strap so the strap is mechanically captured, not adhered.
- The strap passes down the face of the roll, around it, and buckles underneath. That is what carries the rolled curtain.
- Everything else — track, welting, weather flaps, bottom bar, D-rings — is identical to rope and pulley.
- Hand-rolled is practical up to about 10′ of width per curtain. Wider than that, specify rope and pulley.

PANEL CONSTRUCTION

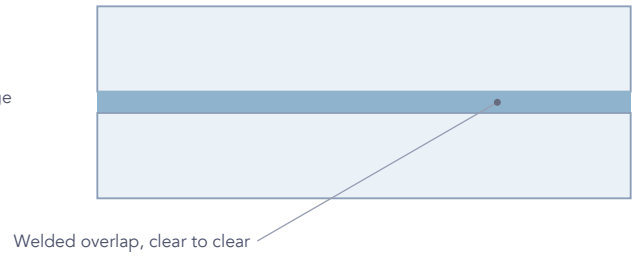
Details enlarged. All seams are radio-frequency welded, never stitched: a stitched seam perforates the vinyl and becomes the failure line.

HEAD — rope welting captured in the track



A flat aluminum bar screwed to the structure, with the channel formed along ONE edge — not down the middle. The channel is barely larger than the welting and the throat is narrower still, so the curtain cannot pull out of its track. Track holes 3" from each end, then every 15", drilled 3/16".

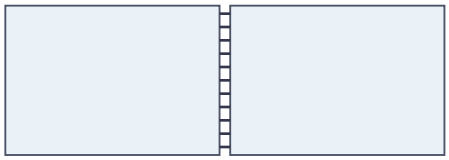
HORIZONTAL WELDED SEAM



Roll vinyl relaxes about 2% across the width in service. Seams run horizontal so that movement never crosses a weld, and the panel keeps reaching the ground.

PANEL TO PANEL

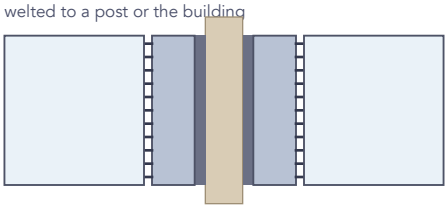
the standard joint



Panels zip directly to one another. That is the standard joint, it is what seals the run, and it is how most of a run is built.

WEATHER FLAP

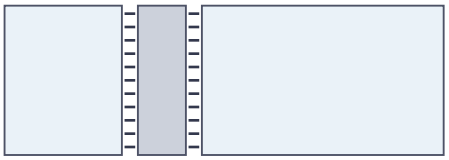
welted to a post or the building



Each flap is welted into its own track on the post and zips to the curtain, so a post between two curtains takes two flaps. Used where there are posts to attach to, or where the run meets the building. The flap is made in the panel's own color.

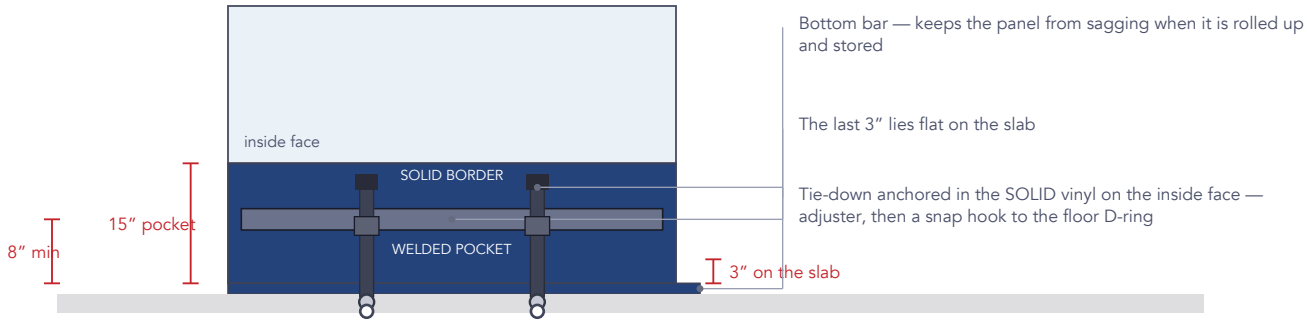
FILLER FLAP

added later, zips both sides



Filler flaps take up the width the vinyl gives back over the years, so the zippers keep closing.

SILL — the panel sits ON the ground (inside face shown)



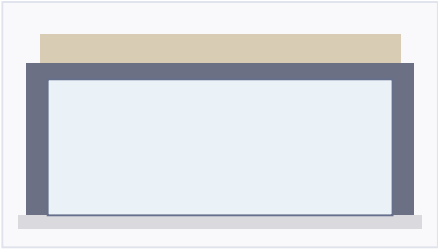
Wind and leaves cannot get under a panel that is already on the ground.

Notes:

- ★ Curtains are numbered from OUTSIDE the patio looking inward, left to right. The same numbers appear on the quote, the layout, the tracks and the curtains.
- ★ Everything on this sheet is the same for clear, solid and sun shade panels.
- ★ The bottom pocket is WELDED to the inside face, just below the tie-downs, and the tie-downs are on the inside too, so nothing hangs on the weather side.
- ★ Tie-downs are anchored in the SOLID vinyl, never in the clear. Clear is much weaker than solid and a tie-down attached to it would tear out.
- ★ Zippers are welded to the panel, not stitched, and sit on the inside where they are easiest to reach.
- ★ Always secure the curtains to their D-rings when deployed. That is what carries wind load.
- ★ Never roll up in strong wind. Roll up before a storm arrives.
- ★ Clean with a hose and a micro-fiber cloth with clear vinyl polish. Bar rags, paper towels and wash cloths scratch clear vinyl.

MOUNTING CONDITIONS

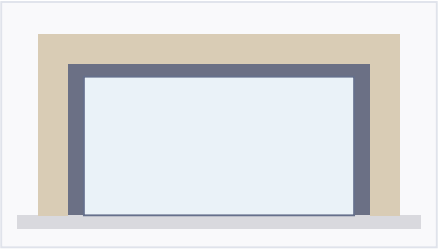
The mount is stated on every quote and confirmed at the design consultation. It changes the panel size, so it is never assumed.



track and panel on the face

Outside mount

Track on the face of the beam or post. The curtain covers the structure; the most weather-tight option and the usual choice.



track hidden up inside — nothing shows

Inside mount

Track tucked up inside between the posts. Nothing shows from outside; the structure stays as it is.



track on the soffit

Under-beam mount

Track on the underside of the beam, spanning post to post. Used where the face is not available or the beam is to be left clear.

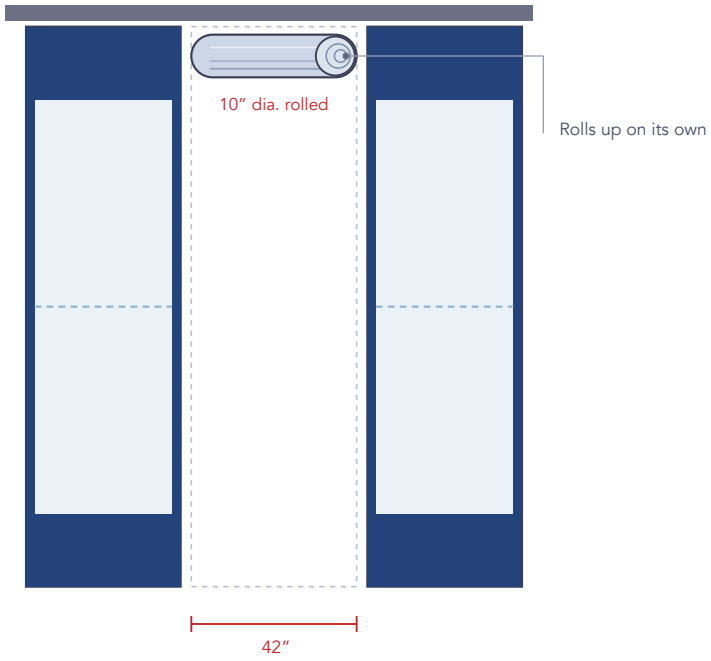
Fastening

- Track holes 3" from each end, then approximately every 15", adjusted to the track length. Drilled with a 3/16" bit.
- Concrete, wood or metal screws to suit the structure, all supplied. The screw type is recorded on the design consultation sheet.
- Where pulleys mount above the track, allow 1/2" of clearance above it.
- SPE installs every job. Nothing on these sheets is a customer task.

DOORS & EGRESS

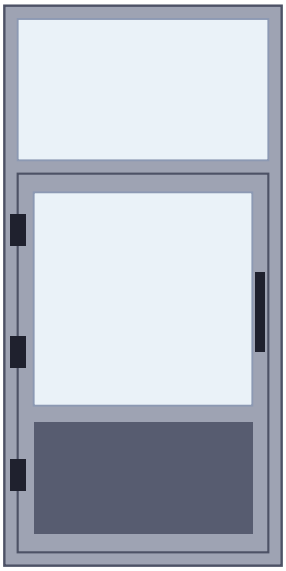
Two ways through a manual enclosure. Both are decided at the design consultation and drawn on the layout before anything is built.

1 — Curtain door



The economical option and by far the most common. One narrow curtain gets its own rope or straps so staff can raise just that panel. No frame, no hardware, nothing to swing.

2 — Framed steel door



Welded 2×2 steel frame, powder coated to match, glazed upper and solid kick panel, heavy-duty closer, three hinges. Specified where the opening is a real entrance, where code calls for it, or where the customer wants a door that latches. Same door as the motorized system.

Notes:

- Swing, hinge side and clear opening are set at the design consultation and drawn on the layout for approval before fabrication.
- A framed door opens outward for egress.
- Where a curtain door is used, the adjacent curtains still zip to it and it still ties to its own D-rings.
- A pole hook is supplied to reach the zipper pull at full height.

Manual Enclosures
TECHNICAL FEATURES







Welded Clear Vinyl Seams

- Eliminate weak points in the clear vinyl that traditional stitching would cause, significantly increasing the strength and endurance of your enclosure.

Adjustable Tie-Downs and Low-Profile D-Rings

- Secure attachments increase your overall wind resistance.
- Low profile D-rings minimize trip hazards.

Heavy Duty Zippers

- Jacket-style zippers are easy to install, and easy to remove between seasons.

Corrosion-Resistant Hardware

- All provided hardware is corrosion-resistant, increasing the longevity of your enclosure.

Bottom Bar

- Heavy-duty bottom bar keeps the panels rolled tightly when retracted, and improves the aesthetic appearance.

Managed Shrinking in Clear Vinyl

- Horizontal seams in the clear vinyl control the shrinking of the panel to a horizontal direction, allowing them to be managed with weather flaps to always ensure a strong seal around your patio.

Weather Flaps

- Customized weather flaps completely seal off your patio, and can be configured to fit any shape column or structure.

Spans Wide Widths

- Our Rope & Pulley/Hand Rolled Patio Enclosures can zip together to span wide widths of over 60', without needing to add any posts to your structure.

Superior Wind Strength

- Rated to withstand sustained winds of 45 mph, our commercial-grade components give our Rope & Pulley/Hand Rolled Patio Enclosures superior wind strength over the competition.

MATERIAL SPECIFICATIONS

A combination patio uses the same fabrics throughout. The only difference is the stock the clear vinyl is cut from, which is what makes the seams run differently.

Clear vinyl

Property	Motorized	Manual	Test / note
Stock	54" × 110" sheet	Roll, cut to length	—
Viewable	52" after the weld	Full panel	—
Seams	Follow the sheet	Always horizontal	RF welded, never stitched
Movement	Pre-shrunk sheet	≈ 2% across the width	Filler flaps supplied
Fire	NFPA 701-2019 TM#2	Same	SGS report 3-33231-0 — Pass

Solid vinyl — 18oz FR

Property	Specification	Test Method
Weight	18 oz/yd² (18.5 oz/yd²)	FS 5040 / ASTM D3776
Grab tensile	375 × 375 lbs / 1"	FS 5100 / ASTM D5034
Tongue tear	100 × 100 lbs / 1"	FS 5134 / ASTM D2261
Cold crack	–30° F	FS 5874 / ASTM D2136
Fire retardant	California State (CSFM), NFPA 701	Pass

Sun shade — Textilene Nano 97

Property	Specification	Note
Openness	3% open — blocks up to 97% of UV	Nano 99 on request
Width	126" rolls	Twitchell / Textilene
Composition	0.014" vinyl-coated 420 denier polyester core yarn	Basket weave
Fire	NFPA 701 and California Title 19	Certified
Warranty	15 year limited, vertical fixed and operable shading	3 year other uses

White · Bone · Sable · Desert Sand · Almond · Café · Stone Texture · Shadow Texture · Tumbleweed · Expresso Texture · Granite · Tobacco · Charcoal · Flat Black

Fire & safety certification

- Solid vinyl — Certificate of Flame Resistance F-41501, Seattle Textile Company, valid to 31 December 2028. CSFM registered, NFPA 701 Test 1 and Test 2, CPAI-84, NYC MEA.
- Clear vinyl — NFPA 701-2019 TM#2 Flat, SGS Govmark report 3-33231-0. Pass.
- Sun shade — NFPA 701 and California Title 19. The treatment is permanent.
- Certificates as issued follow this sheet.

CERTIFICATE OF FLAME RESISTANCE

Solid vinyl — F-41501, California State Fire Marshal

CERTIFICATE OF FLAME RESISTANCE

REGISTERED APPLICATION NUMBER	TRADE NAME of FLAME-RESISTANT FABRIC	ISSUED BY
F - 41501	F/R 18oz BIG TEX	SEATTLE TEXTILE COMPANY 3434 2nd Avenue South Seattle, WA 98134

This is to certify that the materials described below have been flame-retardant treated (or are inherently nonflammable) and were supplied to:

Description: 61" 18oz "F/R" BIG TEX

BEAT THE HEAT SHADING SYSTEMS
13413 FRANKFORD AVE., SUITE A
LUBBOCK, TX 79242

Style: I-TRW10131817(M) **Item #:** VI-ST18-061-XXM

Color(s): White, Royal, Navy, Red, Green, Brown, Tan, Black and Gray

Certification is hereby made that:
The articles described on this certificate have been made from a flame-resistant Fabric Registered and approved by the California State Fire Marshal, equal to or exceeds CSFM, NFPA 701 – Test 1 (Small Scale), NFPA 701 – Test 2 (Large Scale), CPAI-84, & NYC MEA

The Flame Retardant Process Used WILL NOT Be Removed By Washing And Is Effective For The Life Of The Fabric

SEATTLE TEXTILE COMPANY	Signed: Scott Kaczmarek
Name of Applicator of Flame Resistant Finish	Certification Specialist – Scott Kaczmarek / Seattle Textile Company

~~~ This Certificate Expires on: 12/31/2028 ~~~

Certificate of Flame Resistance - BEAT THE HEAT VI-ST18-061-XXM 2028.docx

NFPA 701 TEST REPORT

Clear vinyl — SGS Govmark, report 3-33231-0

SGS GOVMARK

96-D Allen Boulevard
Farmingdale, New York 11735-5626 USA
Tel. +1 (631) 293-8944 Fax +1 (631) 293-8956
email: govmark.accounting@sgs.com

Received:06/28/2019	Completed:07/02/2019	Letter: A	JR	P.O.#:	Test Report #:	3-33231-0-
Client's Identification	Style: Super Clear PVC. Product End Use: Tent Door, Window.					

Tested For: Jackie Jiang/Qing Zhang
Soyang Technical Textile (Zhejiang) Co., Ltd
No.36 Jinniu Rd. Jianshan District
Haininh City, Zhejiang PR, China

Key Test: NFPA 701-2019 TM#2 Flat 525

Tel: 011 86- 571 28918687 **Ext:**
Fax:

LE:2019 NE:2021 V:12/18 NTR 04/16 PC:1H

TEST PERFORMED: NFPA 701 - Standard Methods of Fire Tests for Flame Propagation of Textiles and Films - 2019 Edition - Test Method #2 - Flat Sheet Specimens

SPECIMEN CONFIGURATION: [x] Single Layer; [ ] Multi Layer

RESULTS REPORTED: [x] Initially [ ] After 72 hours water leaching
[ ] After 3 dry cleanings [ ] After 100 hours accelerated weathering
[ ] After 5 launderings @ 160°F

RESULTS:

Specimen #	Length	Afterflame (seconds)	Flaming Drip/Debris (seconds)	Char Length (mm)
1		0	0.0	337
2		0	0.0	301
3		0	0.0	292
4		0	0.0	284
5		0	0.0	232
6		0	0.8	248
7		0	0.0	254
8		0	0.0	237
9		0	0.0	299
10		0	0.0	230

APPROXIMATE WEIGHT OF MATERIAL (as measured by SGS Govmark): 636 g/m²

FAILURE CRITERIA: For each individual specimen --

Afterflame	Drip/Debris Burn	Char Length
Exceeds 2.0 seconds	Exceeds 2.0 seconds	Exceeds 435 mm (17.1")

RETEST PROVISION: Test 5 additional specimens if only 1 specimen fails.

CONCLUSION: Based on the above Results and Failure Criteria, the item tested:

[x] Passes; [ ] Fails; [ ] Requires testing of 5 additional specimens

(Page 1 of 2)

File Copy

NFPA 701 TEST REPORT (CONT.)

Clear vinyl — SGS Govmark, report 3-33231-0

SGS GOVMARK

96-D Allen Boulevard
Farmingdale, New York 11735-5626 USA
Tel. +1 (631) 293-8944 Fax +1 (631) 293-8956
email: govmark.accounting@sgs.com

Received: 06/28/2019	Completed: 07/02/2019	Letter: A	JR	P.O.#:	Test Report #:	3-33231-0-
Client's Identification	Style: Super Clear PVC. Product End Use: Tent Door, Window.					

Tested For: Jackie Jiang/Qing Zhang
Soyang Technical Textile (Zhejiang) Co., Ltd
No.36 Jinniu Rd. Jianshan District
Haininh City, Zhejiang PR, China

Key Test: NFPA 701-2019 TM#2 Flat 525

Tel: 011 86- 571 28918687 **Ext:**
Fax:

PRECONDITIONING: [ ] 1 hr @ 220°F (Standard)
[x] 24 hrs @ 68±9°F (Alternate: Material shrinks/distorts @ 220°F)

REMARKS: None.

CONVERSION FACTORS:

mm ÷ 25.4 = inches
g/m² ÷ 28.35 x .835 = oz/yd²

CERTIFICATION: I certify that the above results were obtained after testing specimens in accordance with the procedures and equipment specified above.

---------- Phyllis Pettit
AUTHORIZED SIGNATURE
SGS GOVMARK

JUL 0 5 2019

/gb
/pm

(Page 2 of 2)

The results contained in this report relate only to item(s) tested. The test report shall not be reproduced, except in full, without written approval from Govmark.

File Copy

DESIGN OPTIONS

Vinyl Colors

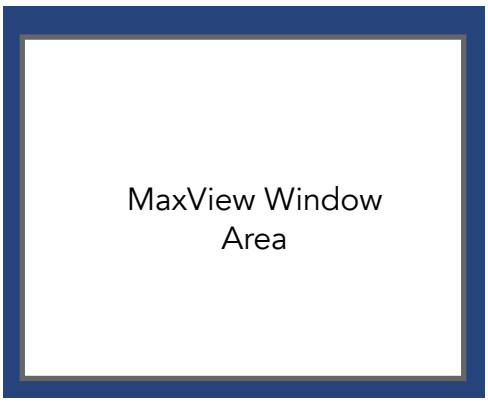
White
Yellow
Orange
Red
Brown
Tan
Green
Lime
Light Blue
Charcoal
Royal Blue
Navy
Dark Purple
Gray
Black

Aluminum Powder Coating

White
Black
Bronze
Slate Gray
Sandstone
Almond
Sierra Tan
Taupe

Window Options

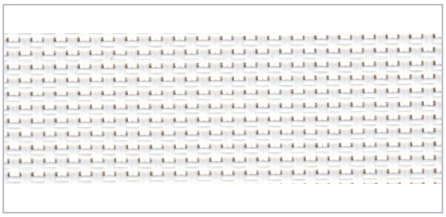




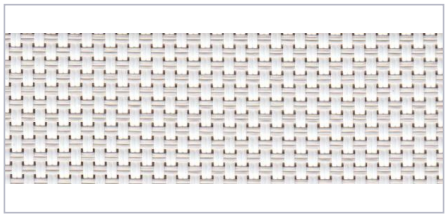
*Updated June 2024

SUN SHADE COLORS

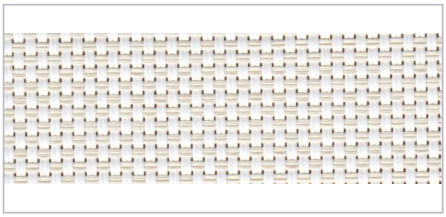
Textilene Nano 97 sun shade, 126" rolls. Blocks up to 97% of UV at 3% openness. Every color below is stocked in Nano 97; Nano 99 is available on request.



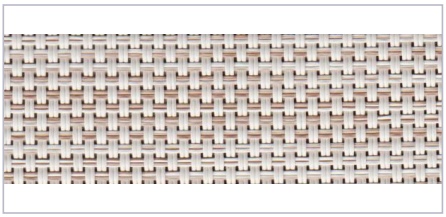
White



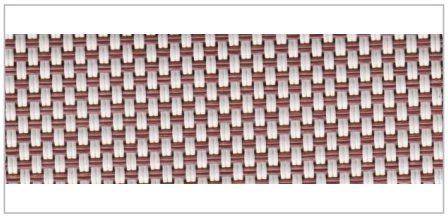
Bone



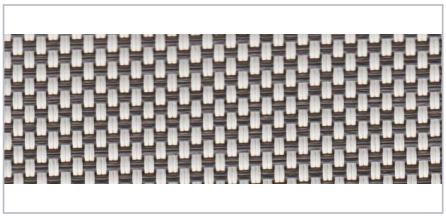
Sable



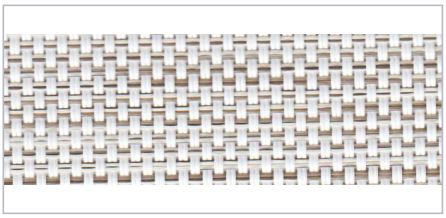
Desert Sand



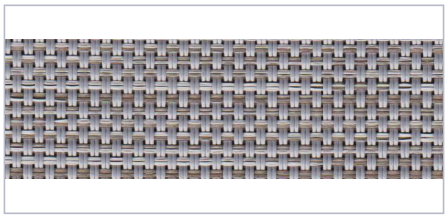
Almond



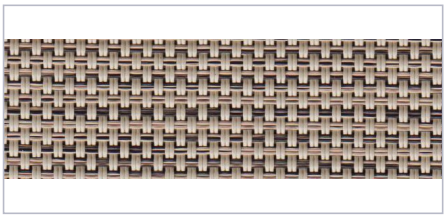
Café



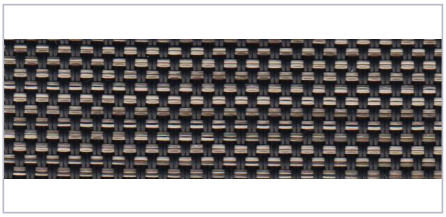
Stone Texture



Shadow Texture



Tumbleweed



Expresso Texture



Granite



Tobacco



Charcoal



Flat Black

Swatches reproduced from the manufacturer's 2024 sample card. Fabric samples are available on request.