

Product Guide
Roller Shade Collection


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## Qmotion

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## Qmotion

## Features

## QMotion ${ }^{\circledR}$ offers state-of-the-art natural light control with the following benefits:

## Several different control options

- QMotion ${ }^{\circledR}$ Shades offer the convenience of moving the shade up or down, stopping at any of the top, the bottom, three programmable intermediate stops, or anywhere in between; all with the ease of a button press.
- Lose your remote? No problem! QMotion® ${ }^{\circledR}$ shades can be moved up or down manually with no remote control. Simply give the shade a gentle pull to get them started.
- Interested in reducing your energy bills? The programmable timer remote can be set up to move your QMotion ${ }^{\circledR}$ shade automatically. Automate your shades by time of day, day of week, sunrise, or sunset. Create six distinct settings and let the shades do the rest.
- Want to control multiple shades with just one remote? QMotion ${ }^{\circledR}$ multi-channel remote controls 6 individual shades or 6 groups of shades all with one remote control. Each channel can have an unlimited number of shades programmed to it.


## Unmatched quietness

- QMotion ${ }^{\circledR}$ engineers developed a shade with whisper quiet operation for a beautiful and peaceful experience.


## Distinctive designs

- Generous fabric collection of light filtering, decorative and beautiful blackout materials.
- Industry leading light gaps on the sides of the shades as small as $1 / 2^{\prime \prime}$ gap on each side, providing the most uniform and highest level of window coverage.

Unparalleled simplicity

- QMotion ${ }^{\circledR}$ automated shades are powered by a low voltage power supply, or an internal pack of standard D-cell batteries. Low voltage power can also be backed up, for uninterrupted operation.
- Our low voltage option allows shades to be powered either individually with a single transformer, as group of four, or with a power panel for supplying as many as 16 shades with power.
- Batteries can last up to five years or more, dramatically reducing maintenance cost and adding convenience. (Shade size and usage will determine actual battery life.)
-No cords -No electrician
-No wires
-No special tools



## Options

## QMotion ${ }^{\circledR}$ advanced shade solutions allow for a customized experience.

## The look you want

- QMotion ${ }^{\circledR}$ shades offer several choices of fascia to conceal the top of the roller shade. Choices include a painted fascia and a fabric wrapped fascia.

The design you need

- Shades come in either standard roll or reverse roll. Standard roll shades have the fabric rolling off the back of the roll, close to the window, while reverse roll shades come off the front of the shade roll, and are further from the window glass. Reverse roll may be a preference for design purposes, or may be needed to permit the shade to lower clear of window obstructions.

The number you want

- Our dual shade system allows users to choose a combination of two shades on the same window. Often used with a light filtering fabric in the front and with a room darkening fabric closest to the glass, QMotion ${ }^{\circledR}$ dual shades are an excellent way to double treat a window in a small space.



## The choice you prefer

- Transformer low voltage power supply is a wired power solution for those who want the benefits of QMotion ${ }^{\circledR}$ Automated shades with a connection to the facility electrical system. Available in a single unit, or one which can power up to four shades or in a panel solution for as many as 16 shades. Low voltage shades deliver all the benefits of QMotion ${ }^{\circledR}$ technology.
- Battery powered QMotion ${ }^{\circledR}$ Shades offer the same benefits as low voltage powered, and add in the ability to install in difficult situations as well as function in the absence of electrical supply. Because QMotion ${ }^{\circledR}$ battery powered shades use an internal battery pack, there are no visible battery packs or wires to hide or see.


## Customization that's right for you

- Choose from our assortment of remote controls. Among the choices is our programmable timer control which allows for setting of times for unattended shade movement or our multichannel remote to control various shade groups from a single hand held transmitter. All transmitters fit on our magnetic wall docking stations, and may be secured in place using our wall station adapter.
- As our programming is simple, all shades arrive ready to "learn" to your remotes. A shade may be controlled by as many as 12 different transmitters.
- Combine groups and transmitters for your convenience. A channel can be for a single shade or a group of shades, and various groups can be programmed to suit the space.


## Qmotion

## Shade Information

## Finally, the luxury and safety of automated shades, completely

 free of cords and wires, are accessible to everyone.Order specifics

- Shades ship complete with brackets and batteries, as needed, ready to install.
- Shades may be specified standard or reverse roll.
- If desired, a 24 v low voltage transformer power option may be specified.


## Size limitations

- Minimum width $22^{1 / 2^{\prime \prime}}$ with batteries, $17^{1 / 2^{\prime \prime}}$ with low voltage power.
- Maximum width 144".
- Maximum height 144".
- Consult fabric tables for available fabric heights, widths and more specific size availability.


## Roll size

- Roll up diameter or RUD is determined by the size of the shade and fabric chosen.
- Extra length of material will be added to the height of the shade in order to allow the fabric to wrap around the tube when fully rolled down.


## Fabric orientation and size

- All shades ship with fabric oriented in the vertical roll direction from the mill.
- If a shade in a group is railroaded, you have the option to railroad all shades the group to match.
- Railroading is available on select fabrics only.
- Seaming is available in all fabrics.
- The seam will be placed near the top of the shade unless specified otherwise.

Side gaps

- $1 / 2^{\prime \prime}$ industry leading side gaps are uniform on each side of the shade. Fabric width will be 1 " narrower than the specified bracket to bracket dimensions.

Tube and hembar size

- Tube and hembar diameters vary depending on the height and width of your shade.
- Hembars are available in painted or fabric wrapped. Paint colors are white, sand, silver, bronze and black.
- All roll up diameters 2.6 or less ship with $1 / 2^{\prime \prime}$ hembars.
- Shades shipped with roll up diameters greater than 2.6 ship with $3 / 4^{\prime \prime}$ diameter hembars.
- A $3 / 4^{\prime \prime}$ hembar is compatible with 2.5 " brackets and may be noted as a substitution on the shade order form.


## Qmotion*

## LOW V

QMotion® Low Voltage shades offer all the same features of QMotion® Battery powered shades, and are compatible with fascia as well as controls.

- Battery tube is replaced with transformer leads
- Each shade comes with a 24 " wire lead.
- Tube is configured to convert low voltage into the proper level to power the shade.
- Power supply options are available to power one shade or multiple shades.
- The power supply can be at the header with the shade, on the floor near the shade or in an equipment room several hundred feet away from the shade.
- In Single Shade Option, a plug-in power supply provides 24 v DC to the shade.
- Low voltage single shades are controlled with the same wireless RF remote as the battery option shades.
- With the Low Voltage Distribution Box the power supply is designed to distribute the appropriate power to as many as four shades.
- The power distribution panel sends power individually up to sixteen shades. The panel also provides protection against short circuit or overload to individual shades.

- $24 v$ to $48 v$ power input accepted.
- QMotion ${ }^{\circledR}$ Low Voltage shades continue to offer the unique and patented manual override system.
*Electrical Panel Box system may be equipped with a customer supplied battery back up system, in the case of a site power event.



## Wire Gauge Requirements

QMotion® does not supply the wires from the transformer to the shades. Recommended minimum wire gauge requirements for distances between power supply and shade or distribution box and shade are as follows for the required 2 conductor cables:

| Wire Length (ft.) <br> 24 v | Min. Wire Gauge |
| :---: | :---: |
| $1500-3000$ | 12 |
| $1200-1500$ | 14 |
| $700-1200$ | 16 |
| $500-700$ | 18 |
| $0-500$ | 20 |

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## Qmotion

Shades

## The next generation of QMotion ${ }^{\circledR}$ Shades takes automated window shades to a higher level.

## 2nd Generation QMotion® Shades

The new design of QMotion ${ }^{\circledR}$ delivers a simpler, sophisticated automated shade that offers both ease of use and dependability.

Easy Battery Replacement - By placing the access port for the batteries in the shade tube wall, you can now change the batteries without having to remove the shade from the brackets. The battery life is up to 5 years, depending on shade size and usage. Easy Fabric Removal and Installation - A snap-on spline is attached to the fabric and can be pulled off and snapped on to the shade tube. The spline that attaches the shade to the tube permits the rollershade fabric band to be easily removed for cleaning, maintaining and sanitizing OR replacement of the fabric altogether. Demounting the tubes or brackets for cleaning is unnecessary.


- Low voltage wired shades can accommodate left or right side connection.
- Longer battery life.
- Extended range and enhance responsiveness to transmitters.
- 30 feet or more in most applications (each installation is different, and environmental factors may effect results.)
- Improved functionality with remotes.
- Advanced electronics are designed to be more responsive and durable.
- Improved programming ease.


## Side Channels and Sill Rail

- Side Channel and Sill Rail now offer a better light control solution by covering the sides and bottom.
- Side Channels are 2 " wide, and the fabric travels inside them with a light blocking wool pile to assist with better light control.
- Side Channels and accompanying Sill Rails come in any of the 5 standard colors. (White, Anodized, Sand, Bronze, or Black)
- Sill Rail is "L"-shaped, and can be oriented to show either $11 / 8$ " or 2 " face toward room.
- Fits into fascia to ensure maximum room darkening.
- Max size is $96 \times 96$ (depending on fabric).
- $1 / 2$ " hembar only - no fabric wrapped hembar.


## Qlink Coupled Shades

## The next generation of QMotion ${ }^{\circledR}$ Shades takes automated window shades to a wider level.

## Qlink

By using the Qlink coupling system, shades can cover spans as wide as 30 feet with a single motor. The linked shade's unique coupling system supports $3 / 4$ " minimum light gap and angles up to 40 degrees.

- Multi-window coverage without wiring, or use our low voltage system.
- Manual override option - shade can be operated manually at all times.
- Shades retain long battery life.
- Adjustable installation brackets for proper shade leveling.
- All other QMotion® features and benefits continue to apply.
- Cover with QMotion ${ }^{\circledR}$ automated fascia.
- Qlink coupled shade mounting brackets are compatible with standard QMotion® mounting brackets and independent fascia.
- For inward facing angles (like bay windows), light gap can be smaller by using a reverse


| Dattery  <br> Decreased Life  <br> Straight  |  |
| :--- | ---: |
| Max Angle | $15 \%$ |



Ordering Information

- Standard roll has motorized shade on left.
- Reverse roll has motorized shade on the right.
- All shades must use same fabric.
- The shades must have same height.
- Choose either White or Black for Qlink.
- Choose straight or select the adjustable angle bracket for angles of up to 40 degrees.
- Bracket enables adjustments for height and depth.
- "Sprung shade" refers to the opposite end from the motorized shade.

| Total Shade |  |
| :--- | :--- |
| Minimum Battery Shade Width | 32 inches |
| Minimum Low Voltage Shade Width | 17 Inches |
| Minimum Inner Width | 17 inches |
| Minimum Inner Sprung Width (application <br> dependent) | 17 inches |
| Minimum System Width | 49 inches |
| Minimum Number of Panels | 2 |
| Maximum System Width | 30 feet |
| Maximum Height (see fabric tables) | 120 inches |
| Battery Available | Yes |
| Low Voltage Available | Yes |
| Fascia Available | Yes |
| Light Gap When Straight | $3 / 4$ inches |

## Qmotion

## Mounting Brackets

## Elegant fabrics, clean lines and modern finishes create natural beauty for every window.

## Seven styles

- There are seven different mounting brackets offered depending on application requirements:
2.6 Universal
3.3 Universal
2.5 Dual Shade
3.7 Dual Shade

- The numerical designation represents the maximum size roll diameter the bracket can support. 2.6" brackets accommodate roll sizes from 2.0" - 2.6". 3.3" brackets accommodate roll sizes from 2.6" - 3.3".


## Roll size guidelines

- Roll size is determined at the time an order is quoted and is dependent on material thickness, and the height of the shade. Fabric listing tables provide the maximum shade height for 2.6 " brackets and 3.3" brackets depending on fabric type and width of shade.


## Default brackets

- Non-fascia shades ship with universal brackets.
- Outside mount shades ship with outside mount brackets.
- Pocket applications are best served with our fascia. Please note bracket requests on order form.
- Dual shade applications ship with dual brackets. 3.3" universal bracket is shipped for all outside mount applications with roll diameters greater than 2.6".
- Verify bracket dimensions in the space where the shades will be installed. If the brackets can fit, then the shade will fit, be installed and adjusted with ease.


## Reverse roll brackets

- All brackets are engineered to accommodate both reverse and standard roll.

Fascia compatibility

- All brackets are compatible with fascia treatments.
- CAD data in dwg and pdf format is available at www.qmotionshades.com.
 Fascia


## Fascias add a special finishing touch.

Including fashionable, color-coordinated fascias will enhance both the form and function of your QMotion ${ }^{\circledR}$ Shades. Easily mounted either inside or outside the window width, fascias attractively conceal the shade system while adding to the light protection your shades were designed to provide. So they're pretty and practical, all in one.

- Choose from five standard colors: White, Silver, Sand, Bronze, and Black or fabric wrapped to match your shade.
- Fabric wrapped options cover the entire front face and bottom face of fascia.
- All fascia orders include color-coordinated endcaps.
- All fascia include an integrated light-blocking strip at the top for full finish and optimal light management.

- Some fabrics are not available to be wrapped on Qmotion ${ }^{\circledR}$ Fascias. This is due to their inability to be attached in an appropriately aesthetic fashion. At the time of this writing, fabrics in our current sample collection which are not available with fabric covered fascia:
$\begin{array}{lll}\text { Avila } & \text { Chantilly } & \text { Edessa } \\ \text { Infinity } & \text { Tones Blackout } & \text { Umbra }\end{array}$ Please contact Customer Service for current details.



## Pocket Closure

- To conceal the lower front of a pocket installation, Qmotion ${ }^{\circledR}$ offers the Pocket Closure system
- This simple two part system installs easily, and conceals the front bottom of installed shades.
- Sections are cut to size, and available up to 12.5 foot lengths, and the Closure sections are available in either 2 " or 3 " depths, for the best possible match in the design.
- Available in white only.


## Battery Life and Range Expectations

## QMotion ${ }^{\circledR}$ shades offer the longest battery life in the industry.

QMotion ${ }^{\circledR}$ Shades lead the industry in battery life

- Our shades use D size alkaline batteries, while others use AA batteries which have fraction of the capacity. D size batteries have 7 to 8 times the capacity. We have patented the technology to put the batteries inside the tube providing superior aesthetics with no power wires or antenna showing.
- While balance is important, most shades are not moving most of the day. The shade must be ready to accept a command 24/7, that means the shade must be awake and listening for your commands at all times. QMotion ${ }^{\circledR}$ shade engineers have painstakenly designed software and hardware that minimize battery usage when the shade is not being used. Our technology stretches battery life, resulting in industry leading time between battery changes.
- QMotion ${ }^{\circledR}$ uses patented techniques to manage the weight of the shade as it is lowered.
Because of this, it takes very little energy to run our shades up and down, meaning very low usage of the batteries.
- Battery life is dependent on shade usage and shade size. Larger shades, when used more, will have lower battery life expectancy when compared to smaller shades used less frequently.
- The graph below indicates the relative battery life of different sizes of shades and different amounts of usage of each.



## Distance from shade to be controlled - (2nd Generation)

QMotion ${ }^{\circledR}$ transmitters are expected to work from over 30 feet away. While your individual results will vary, and may be less in some environments, many customers have reported even better results.

The QMotion ${ }^{\circledR}$ Timer Remote is a special function device and under FCC guidelines may not transmit at the same power as others. Range for this is typically over 10 feet.

We recommend the use of a Qrelay when the transmission range of a device is not sufficient.

| Transmitter | Normal (ft) |
| :--- | :---: |
| Single Channel | 30 |
| Multi Channel | 30 |
| USB Timer | 10 |
| Qconnect | 50 |
| Qrelay | 30 |

***Remember each installation is unique, height of the window, interference and other factors may effect this expectation.***

## Non-Motorized Shades

Simplicity, elegance, and affordability from QMotion ${ }^{\circledR}$ coordinates a beautiful look.
 the same quality engineering and offers exceptional child safety through the lack of continuous cords.

- Fully adjustable upper limit
- Integrated braking system
- Fully compatible with QMotion ${ }^{\circledR}$ automated shades and brackets
- Shades over $221 / 2$ " wide may, at some time, be motorized in the future for a surcharge (t.b.a.)
- Minimum width of 14 " wide
- Shades up to 120 " wide $\times 120$ " high, check fabric charts for specific fabric capabilities
- Easily positioned to be standard or reverse roll
- Easy fabric change with spline
 but your basic shade. Qbasic delivers the styles you want that surpass similar clutch type manual shades.
- Easy pull gear reduction clutch allows for smooth and lower force operation
- Reversible fascia allows for adjustment to standard or reverse roll
- Minimum width of 7 "
- Shades up to 120 " wide $\times 144$ " high
- Quick roller tube release from end bracket for easy removal
- Standard hi-tensile strength plastic chains
- Stainless steel or nickel plated chain upgrade available


## Qbasic Specifications

| Clutch Type | QB-17 | QB-28 | QB-17 | QB-28 |
| :---: | :---: | :---: | :---: | :---: |
| Tube Diameter | 11/2" Standard | 11/2" Snap On Fascia | 2" Standard | 2" Snap On Fascia |
| Maximum Width | 108" | 108" | 120 " | 120" |
| Maximum Height | 144" | 144 " | 144" | 144" |
| Maximum lbs | 17 1/2 | $281 / 2$ | 17 1/2 | $281 / 2$ |
| Light Gap | 9/16" | 9/16" | 9/16" | 9/16" |
| Minimum Inside Depth | 3 3/16" | 3 9/16" | 3 3/16" | 3 9/16" |
| Tube Diameter | 11/2" | $11 / 2^{\prime \prime}$ | 2 " | 2 " |
| Gear Reduction | 20\% | 30\% | 20\% | 30\% |
| Snap On Fascia Available | No | Yes | No | Yes |
| Independent Fascia Available | Yes | Yes | Yes | Yes |

## Qmotion

## Cassette Shades

## The next generation of QMotion ${ }^{\circledR}$ Shades takes automated window shades to a higher level.

## QCassette

QMotion® motorized Cassette Roller Shades are powered by the same innovative battery saving technology used in all of our roller shades. This Cassette was designed for a soft elegant look with easy installation in mind.

- Fully enclosed shade system covers top and back with aluminum, and shade rises fully into cassette.
- Installation of this single shade cassette is literally a "snap" with two simple spring clips needed.
- Light blocking wool pile integrated into the top for more complet finish and better light management.
- Curved front cover design.
- Coordinated front cover in 5 standard laminated colors. White, Black, Bronze, Sand and Silver.
- Painted or fabric wrapped hem bar.
- Easy access to batteries in the shade tube through pivoting front cover.
- Works with all QMotion® controls.
- Compatible with QMotion® Automated and Qfree shades (pull tassel recommended with Qfree shades in cassette.)
- Available on shades up to 120 inches x 96 inches, with limited fabric exceptions. Max RUD of 2.9".
- End covers inlcuded with all cassette systems.
- Compatible with battery QMotion ${ }^{\circledR}$ Automated shades only.

The Qmotion® Cassette is formed of two extruded parts. The top and back extrusion is a durable structural aluminum, designed to mount securely and retain the Qmotion ${ }^{\circledR}$ system. The face plate is a limited vinyl material engineered to be durable and attractive, while making installation and battery changes simple.



These charts are for QMotion ${ }^{\circledR}$ Automated and
Qfree Manual shades. They are designed to provide extensive details on the shades that we would produce with our systems.

In the charts, the grey sections are not available. This is fabric related, as some materials cannot be railroaded. The numbers in each cell indicate the diameter of the rolled fabric when raised to the top. Fabric suppliers have variation in their weaves, but this information is based on our expectations from the data for each material.

The section in the white color indicates that the shade will be manufactured on our 2.5 " brackets. The section in light blue color will be made on the 3.7 " brackets. The dark line, cutting through the graph indicates the size at which we would railroad the fabric, if available.

Fabrics that can't be railroaded, check fabric width for maximum shade width.

At this time, we are only producing shades as large as 144 " in either width or height. Additional sizes may be available in the near future.


Fabric Selections (Charts on the following 12 pages):

| $2701-1 \%$ | $4400-3 \%$ | Bali | E-Screen-5\% | Linen | Natural Screen | SW 2500-1\% | Chantilly |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $2703-3 \%$ | $4800-1 \%$ | E-Screen-1\% | Oasis | M-Screen | Cirrus | Columns | Chantilly Blkt | Vizela |
| $2705-5 \%$ | Fiji | E-Screen-10\% | Infinity-3\% | Island | SW 2390-5\% | Tones | Eternity |  |
| $4000-5 \%$ | Avila Twilight | E-Screen-3\% | Infinity-5\% | Matte | SW 2410-3\% | Tones Blackout | Eternity Pearl | Edessa |


|  |  | 24 | 10 | \% | 42 | 48 | 4 | 60 | 6 | n | 78 | 84 | so | 66 | 300 | 108 | 184 | 120 | 136 | 112 | 138 | 244 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 24 | 2.10 | 2.0 | 2.90 | 2.0 | 2.0 | 2.00 | 2.90 | 2.39 | 2.30 | 2.80 | 2.80 | 2.30 | 2.30 | 269 | 267 | 2.87 | 267 | 148 | 3.48 | 348 | 348 |
|  | 30 | 2.4 | 2. m | 2 m | 2.4 | 2.34 | 2.48 | 2 m | 2.4 | 2 m | 2 m | 2.48 | 2.4 | 2 m | 271 | $2 \pi$ | 271 | 2.31 | 151 | 151 | 151 | 158 |
|  | 3 | 2.88 | 2.38 | 238 | 2.3 | 2.88 | 2.88 | 2.38 | 2.38 | 2.38 | 2.38 | 2.38 | 2.88 | 2.88 | 2.4 | 234 | 2.74 | 2.34 | 3.54 | 3.54 | 354 | 3.54 |
|  | 48 | 243 | 2.45 | 243 | 24. | 2.4 | 2.48 | 249 | 2.43 | 2.43 | 2.4 | 2.3 | 2.4 | 2.48 | 2.78 | 278 | 278 | 2.78 | 157 | 1.57 | 157 | 157 |
|  | 4s | 2.47 | 2.47 | 2.47 | 247 | 2.47 | 2.47 | 2.47 | 2.47 | 2.48 | 2.47 | 249 | 247 | 2.49 | 288 | 288 | 288 | 2.82 | 3.60 | 3.60 | 3.50 | 3.60 |
|  | 5 | 2.58 | 2.51 | 258 | 254 | 251 | 2.51 | 254 | 2.54 | 2.58 | 2.51 | 2.51 | 2.54 | 2.51 | 2ss | 285 | $2{ }^{\text {\% }}$ | $2{ }^{\text {S }}$ | 1.6 | 3.9 | 3.62 | 362 |
|  | 60 | 258 | 258 | 258 | 258 | 2.58 | 2.55 | 258 | 2.55 | 2.58 | 2.58 | 2.58 | 2.55 | 258 | 23 | 289 | 2 \% | 129 | 168 | 1.45 | 155 | 165 |
|  | 6 | 2.58 | 2.58 | 259 | 258 | 2.50 | 2.59 | 2.59 | 2.58 | 2.59 | 2.59 | 2.59 | 2.56 | 2.50 | 233 | 235 | 2.53 | 253 | 368 | 3.68 | 388 | 368 |
|  | n | 2.61 | 2.63 | 263 | 261 | 2.63 | 2.53 | 261 | 2.63 | 1.63 | 2.63 | 2.9 | 263 | 2.63 | 296 | 296 | 29\% |  | 171 | 3.71 | 1.71 | 3.7 |
| ᄃ | 3 | 267 | 2.67 | 267 | 260 | 2.67 | 2.57 | 267 | 2.67 | 2.87 | 2.67 | 2.67 | 267 | 2.67 | 300 | 100 | 100 | 100 | 3.34 | 3.74 | 3.34 | 1.74 |
| $\frac{0}{2}$ | ${ }^{4}$ | 27 | 2.71 | 27 | 271 | 271 | 2.1 | 27 | 2.7 | 2. 1. | 271 | 2.7 | 27 | 271 | 368 | 103 | 1.08 | 163 | 38 | 3.\% | 3.3 | 3\% |
| + | 90 | 25 | 2.75 | 273 | 27 | 2.5 | 2.5 | 27 | 2.75 | 2.75 | 2.7 | 278 | 2.5 | 2.5 | 306 | 305 | 105 | 108 | 179 | 3.79 | 37 | 17 |
|  | 9 | 28 | 2.78 | 2.78 | 23 | 2.78 | 2.78 | 27\% | 2.78 | 2.88 | 2.78 | 2.88 | 238 | 2.78 | 310 | 310 | 110 | 130 | 36 | 3*2 | 382 | 38 |
|  | 388 | 288 | 2 P | 288 | 288 | 2.8 | 28 | 2.8 | 28 | 12 | 2 A | 23 | 23 | 28 | 113 | 113 | 1.13 | 131 | 34 | 304 | 384 | 384 |
|  | 106 | 2.6 | 2.46 | 2 mb | 206 | 2\% | 2.86 | 266 | 2.4s | 286 | 2.6 | 2.6 | 2.6 | 268 | 1.26 | 116 | 1.16 | 1.85 | 197 | 3.7\% | 1897 | 1.3) |
|  | 134 | 289 | 289 | 289 | 28 | 289 | 289 | 289 | 289 | 289 | $2{ }^{2}$ | 249 | $2{ }^{\text {a }}$ | 289 | 320 | 3.20 | 320 | 3.20 | 350 | 3.00 | 390 | 390 |
|  | 120 | 233 | 2.98 | 293 | 293 | 293 | 2.93 | 293 | 2.93 | 2.93 | 2.93 | 233 | 230 | 293 | 123 | 123 | 138 | 133 | 198 | 198 | 192 | 298 |
|  | 126 | 256 | 2.9 | 238 | 2\% | 2.9 | 2.\% | 2\% | 2.38 | 2.6 | 2.6 | 2.36 | 2.6 | 2.96 | 3.25 | 326 | 1.25 |  | 355 | 3.45 | 335 | 3.5 |
|  | 132 | 319 | 3.9 | 129 | 329 | 139 | 3.9 | 33 | 3.29 | 129 | 3.29 | 129 | 139 | 139 | 323 | 339 | 339 | 129 | 3s8 | 3.88 | 338 | 388 |
|  | 138 | 137 | 1.38 | 132 | 128 | 128 | 1.12 | 18 | 1.38 | 1.12 | 1.12 | 132 | 4.00 | 4.00 | 400 | 400 | 400 | 4.00 | 4.00 | 4.00 | 4.00 | 400 |
|  | 144 | 335 | 335 | 335 | 3s5 | 355 | 3.5 | 335 | 3.35 | 3.35 | 338 | 335 | 4.63 | 4.38 | 4.03 | 4.63 | 4.05 | 4.33 | 4.63 | 4.03 | 4.03 | 4.83 |

$27033 \%$ Roll Width $=126^{\prime \prime}$


2705 5\% Roll Width $=126^{\prime \prime}$



44003\% Roll Width $=98^{-}$

|  | 34 | 30 | 38 | 42 | 48 | 54 | 68 | 46 | $n$ | 78 | 84 | 90 | 8 | 102 | 159 | 184 | 120 | 185 | 132 | 138 | 344 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 24 | 2.45 | 2.9 | 2.40 | 249 | 2.40 | 2.40 | 2.40 | 2.40 | 2.40 | 2.40 | 2.10 | 2.40 | 2.49 | 2.76 | 2.76 | 2.75 | 2.5 | 356 | 155 | 156 | 156 |
| 30 | 2.46 | 2.66 | 2.45 | 2.45 | 2.46 | 2.46 | 2.46 | 2.46 | 2.46 | 2.46 | 2.46 | 2.45 | 2.46 | 281 | 2.81 | 2.81 | 211 | 3.60 | 1.60 | 160 | 3.60 |
| 3 | 254 | 254 | 2.51 | 254 | 254 | 254 | 254 | 254 | 254 | 2.54 | 2.54 | 254 | 2.58 | 2.86 | 2.08 | 295 | 2.6 | 3.64 | 1.64 | 164 | 164 |
| 4 | 257 | 257 | 2.57 | 257 | 2.57 | 257 | 257 | 257 | 257 | 2.57 | 2.57 | 257 | 2.57 | 2.4 | 2.91 | 2.91 | 2.51 | 368 | 165 | 168 | 364 |
| es | 262 | 268 | 2.62 | 282 | 262 | 26. | 2.2 | 2.62 | $26 \pm$ | 2.62 | 2.62 | 268 | 2.42 | 2.56 | 2.85 | 2.95 | 296 | 372 | 378 | 872 | 872 |
| 84 | 2.68 | 288 | 2.98 | 268 | 268 | 268 | 2.68 | 268 | 2.68 | 2.68 | 288 | 2.48 | 2.88 | 1.01 | 3.01 | 108 | 100 | 37 | 175 | 175 | 175 |
| 60 | 23 | 2.75 | 2.73 | 273 | 23 | 2.3 | 2.33 | 2.3 | 23 | 2.33 | 235 | 273 | 2.33 | 3.65 | 3.05 | 3.05 | 305 | 3.9 | 3.73 | 439 | 379 |
| 46 | 278 | 278 | 2.73 | 278 | 238 | 238 | 278 | 238 | 238 | 2.88 | 238 | 278 | 2.88 | 130 | 310 | 1.39 | 1.30 | 3.89 | 183 | 183 | 38) |
| $\pi$ | 283 | 2 H | 273 | 243 | 283 | 28) | 283 | 24) | 285 | 2.83 | 283 | 2 ${ }^{\text {m }}$ | 283 | 114 | 314 | 1.24 | 1.14 | 187 | 187 | 187 | 387 |
| 78 | 288 | 2.88 | 268 |  | 288 | 288 | 288 | 2.88 | 2.85 | 288 | 2.88 | 288 | 2.88 | 319 | 3.15 | 318 | 3.19 | 3.50 | 3.90 | 359 | 390 |
| 84 | 291 | 2.97 | 2.93 | 297 | 298 | 298 | 283 | 298 | 290 | 293 | 298 | 298 | 253 | 313 | 371 | 123 | 127 | 3.98 | 1.98 | 194 | 194 |
| 90 | 298 | 298 | 2.88 | 298 | 298 | 298 | 2.58 | 2.58 | 258 | 2.58 | 2.58 | 298 | 3.28 | 3.28 | 3.28 | 235 | 8.28 | 3.97 | 3.97 | 8.97 | 397 |
| \% | 308 | 3.0 | 1.92 | 309 | 100 | 308 | 169 | 300 | 3.00 | 108 | 300 | 308 | 312 | 172 | 3.19 | 3.12 | 132 | 404 | 4.01 | 4.85 | 485 |
| 102 | 100 | 197 | 1.07 | 109 | 100 | 107 | 100 | 3.07 | 309 | 100 | 3.07 | 107 | 1.36 | 136 | 318 | 1.35 | 136 | 4.01 | 4.08 | 4.84 | 404 |
| 158 | 311 | 311 | 3.11 | 3.11 | 311 | 311 | 3.11 | 311 | 311 | 8.11 | 311 | 311 | 3.40 | 340 | 3.40 | 3.45 | 3.46 | 4.68 | 4.08 | 4.85 | 408 |
| 134 | 1.26 | 116 | 1.16 | 136 | 115 | 136 | 1.36 | 316 | 116 | 135 | 316 | 1.16 | 1.4 | 1.44 | 1.48 | 1.45 | 144 | 4.13 | 4.12 | 4.21 | 4.11 |
| 120 | 320 | 120 | 3.20 | 320 | 120 | 320 | 3.20 | 3.20 | 320 | 3.20 | 3.20 | 320 | 349 | 3.49 | 3.45 | 3.43 | 349 | 4.15 | 4.15 | 4.25 | 4.15 |
| 126 | 335 | 385 | 325 | 325 | 125 | 3.35 | 1.25 | 3.35 | 325 | 325 | 3.35 | 351 | 85 | 357 | 358 | 153 | 353 | 4.18 | 4.28 | 4.28 | 4.28 |
| 132 | 325 | 129 | 129 | 327 | 129 | 329 | 1.25 | 3.29 | 129 | 129 | 379 | 357 | 157 | 157 | 3.57 | 157 | 4.21 | 4.31 | 4.21 | 4.21 | 4.21 |
| 138 | 3.60 | 3.60 | 360 | 360 | 360 | 366 | 360 | 3.60 | 3.60 | 360 | 3.60 | 3.60 | 360 | 3.60 | 3.60 | 360 | 4.25 | 4.35 | 4.25 | 4.25 | 4.25 |
| 144 | 364 | 1.64 | 1.64 | 34 | 164 | 364 | 364 | 3.64 | 1.64 | 164 | 3.64 | 184 | 164 | 3.4 | 181 | 184 | 4.28 | 4.38 | 4.28 | 4.28 | 4.78 |

$48001 \%$ Roll Width $=96^{*}$



Avila Twilight
Roll Width $=110^{\prime \prime}$


Bali Roll Width $=110^{\prime \prime}$


Width

|  | 24 | 30 | 5 | 42 | 48 | 54 | 16 | 66 | 72 | 78 | 34 | 90 | 66 | 162 | 108 | 114 | 120 | 128 | 132 | 138 | 144 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 24 | 2.22 | 2.22 | 2.22 | 2.22 | 2.22 | 2.22 | 222 | 2.22 | 2.22 | 2.22 | 2.22 | 2.22 | 2.22 | 260 | 260 | 2.60 | 260 | 3.42 | 3.42 | 3.42 | 3.42 |
| 30 | 2.36 | 2.26 | 2.26 | 2.26 | 2.25 | 2.26 | 2.26 | 2.25 | 2.35 | 2.26 | 2.36 | 2.36 | 2.26 | 2.61 | 2.63 | 2.63 | 263 | 1.44 | 3.44 | 3.44 | 1.44 |
| 3 | 2.29 | 279 | 223 | 229 | 239 | 20 | 2.29 | 2.29 | 229 | 23 | 223 | 2.29 | 278 | 2.68 | 266 | 2.66 | 2.65 | 146 | 3.46 | 346 | 1.45 |
| 42 | 2.12 | 2.3 | 232 | 232 | 2.3 | 2.12 | $2{ }^{\text {3 }}$ | 2.32 | 2.32 | 2.38 | 2.32 | 232 | 2.3 | 2.65 | 268 | 2.69 | 2.69 | 3.49 | 3.09 | 3.45 | 3.4) |
| 48 | 2.36 | 2.35 | 23 | 215 | 2.30 | 2.15 | 2.4 | 235 | 235 | 230 | 235 | 2.3 | 2.3 | 272 | 27 | 2.72 | 272 | 354 | 351 | 151 | 158 |
| 54 | 2.39 | 2.35 | 235 | 239 | 2.33 | 2.3 | 2.3 | 2.33 | 2.33 | 2.30 | 239 | 235 | 2.31 | 274 | 274 | 2.74 | 2.24 | 353 | 3.53 | 3.53 | 3.53 |
| 60 | 2.42 | 2.42 | 242 | 242 | 2.42 | 2.42 | 2.42 | 2.42 | 1.42 | 2.42 | 2.42 | 2.42 | 2.42 | 277 | 277 | 2.71 | 277 | 355 | 3.55 | 3.55 | 3.55 |
| 64 | 2.45 | 2.45 | 2.45 | 245 | 2.45 | 2.45 | 2.45 | 2.45 | 2.45 | 2.45 | 2.45 | 2.45 | 2.45 | 2.00 | 280 | 2.00 | 2.80 | 157 | 357 | 357 | 157 |
| 7 | 2.48 | 2.es | 2.45 | 248 | 2.45 | 2.28 | 2.45 | 2.45 | 2.45 | 2.45 | 2.58 | 2.48 | 2.88 | 283 | 285 | 288 | 283 | 3.59 | 3.58 | 359 | 3.59 |
| E 3 | 254 | 2.51 | 258 | 254 | 251 | 2.51 | 251 | 255 | 2.54 | 2.51 | 258 | 2.54 | 2.51 | 285 | 285 | 285 | 285 | 102 | 3.9 | 152 | 192 |
| 管 | 254 | 2.54 | 254 | 2.54 | 2.54 | 2.48 | 254 | 2.54 | 2.54 | 2.54 | 2.54 | 254 | 2.54 | 2 st | 288 | 2 208 | 288 | 164 | 3.64 | 3.4 | 1.4 |
| ㅍ 90 | 2.57 | 2.57 | 257 | 259 | 2.57 | 2.87 | 257 | 2.57 | 2.57 | 2.57 | 2.57 | 257 | 2.57 | 298 | 298 | 291 | 2.51 | 366 | 3.86 | 366 | 366 |
| 9 | 2.60 | 2.60 | 200 | 260 | 2.69 | 2.00 | 2.60 | 2.00 | 2.60 | 2.60 | 2.00 | 2.60 | 2.60 | 293 | 299 | 2.98 | 2.83 | 1.68 | 3.68 | 158 | 1.98 |
| 162 | 2.63 | 2.63 | 263 | 263 | 2.65 | 2.63 | 2.65 | 2.63 | 2.63 | 2.63 | 2.63 | 263 | 2.63 | 296 | 296 | 296 | 2.55 | 1.30 | 3.70 | 3.70 | 3.0 |
| 208 | 2.66 | 2.65 | 2.65 | 264 | 2.06 | 2.96 | 2.65 | 2.45 | 2.65 | 2.66 | 2.45 | 2.66 | 2.66 | 298 | 290 | 2.88 | 288 | 138 | 3.72 | 37 | 12 |
| 134 | 2.6 | 2.69 | 2.69 | 265 | 2.60 | 2.69 | 269 | 2.69 | 2.69 | 2.99 | 2.09 | 2.69 | 2.68 | 108 | 100 | 1.01 | 108 | 1.34 | 3.74 | 1.74 | 124 |
| 120 | 2.7 | 272 | 2.72 | 272 | 2.72 | 2.72 | 27 | 2.72 | 2.72 | 2.72 | 2.72 | 272 | 2.72 | 303 | 300 | 103 | 183 | 3.36 | 3.76 | 3.26 | 3.75 |
| 126 | 3.06 | 306 | 106 | 105 | 106 | 3.06 | 106 | 106 | 1.06 | 1.06 | 196 | 3.06 | 1.95 | 306 | 308 | 3.05 | 106 | 318 | 3.78 | 1.78 | 178 |
| 132 | 3.08 | 3.08 | 308 | 308 | 3.08 | 3.08 | 308 | 3.08 | 3.08 | 3.08 | 3.08 | 3.08 | 3.50 | 380 | 180 | 380 | 180 | 380 | 310 | 3.80 | 380 |
| 188 | 3.11 | 3.11 | 311 | 3.11 | 3.11 | 3.11 | 3.11 | 3.11 | 3.15 | 3.15 | 3.15 | 313 | 3.82 | 382 | 3.89 | 389 | 182 | 3.89 | 3.82 | 382 | 312 |
| 144 |  |  | 194 | 384 | 1.8 | 304 | 184 | 1.84 | 1.4 | 184 | 194 | 184 | 184 | 384 | 184 | 150 | 184 | 184 | 3 W4 | 194 | 384 |

E-Screen 10\% Roll Width $=122^{\prime \prime}$

|  |  | 24 | 19 | \$ | 42 | 48 | 94 | 69 | 65 | 72 | 78 | 34 | 98 | 96 | 190 | 108 | 184 | 120 | 125 | 121 | 138 | 244 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 24 | 2.34 | 2.34 | 2.24 | 2.34 | 2.24 | 2.34 | 2.31 | 2.24 | 2.24 | 2.24 | 3.34 | 2.34 | 2.34 | 2.62 | 268 | 2.0 | 2.92 | 3.44 | 3.44 | 344 | 1.44 |
|  | 30 | 2.28 | 2.35 | 2.28 | 2.28 | 2.35 | 2.23 | 2.35 | 2.23 | 2.23 | 2.31 | 2.28 | 2.38 | 2.38 | 2.85 | 265 | 2.85 | 2.85 | 1.46 | 1.45 | 146 | 1.45 |
|  | 3 | 2.12 | 2.82 | 232 | 238 | 2.38 | 2.89 | 2 st | 2.32 | 2.38 | 2.89 | 2.32 | 232 | 2.58 | 2.68 | 268 | 2.65 | 268 | 3.49 | 3.49 | 3.45 | 3.49 |
|  | 48 | 2.5 | 235 | 235 | 235 | 23 | 2.5 | 235 | 235 | 2.35 | 2.3 | 235 | 235 | 2.35 | 278 | 271 | 2.71 | 2.71 | 154 | 351 | 151 | 158 |
|  | 65 | 239 | 2.50 | 239 | 2.30 | 2.3 | 2.59 | 23 | 2.33 | 2.31 | 2.3 | 239 | 2.35 | 2.3 | 2.74 | 274 | 2.74 | 2.24 | 3.53 | 3.53 | 3.53 | 3.53 |
|  | 54 | 2.43 | 2.42 | 2.42 | 243 | 2.42 | 2.42 | 2.45 | 2.42 | 2.42 | 2.42 | 2.2 | 2.42 | 2.42 | 278 | 278 | 2.78 | 2.28 | 1.56 | 3.85 | 156 | 155 |
|  | 60 | 246 | 2.46 | 2.45 | 246 | 2.45 | 2.46 | 2.6 | 2.45 | 2.46 | 2.45 | 204 | 2.46 | 2.85 | 283 | 281 | 281 | 2.81 | 1.58 | 1.58 | 158 | 158 |
|  | 64 | 2.45 | 2.01 | 2.45 | 2.45 | 2.49 | 2.20 | 2 ,4 | 2.43 | 2.49 | 2.49 | 2.45 | 2.49 | 2.es | 284 | 2.84 | 2.84 | 2.84 | 1.60 | 3.60 | 1.60 | 160 |
|  | 7 | 251 | 253 | 251 | 257 | 253 | 2.33 | 251 | 253 | 253 | 253 | 253 | 253 | 253 | 285 | 208 | 2.8 | 2.85 | 1.63 | 1.63 | 153 | 183 |
| $\begin{aligned} & \frac{0}{5} \\ & \frac{00}{0} \\ & \frac{10}{1} \end{aligned}$ | 73 | 256 | 2.56 | 254 | 256 | 2.56 | 2.56 | 256 | 2.58 | 2.56 | 2.56 | 2.56 | 256 | 2.56 | 293 | 280 | 2 23 | 2.3 | 365 | 3.65 | 3.55 | 3.65 |
|  | 84 | 259 | 2.59 | 259 | 259 | 259 | 2.59 | 259 | 2.59 | 2.59 | 2.59 | 2.59 | 259 | 2.59 | 292 | 292 | 2.98 | 2.92 | 3.67 | 3.67 | 357 | 3.97 |
|  | 90 | 2.62 | 268 | 262 | 268 | 2.68 | 2.82 | 268 | 268 | 2.62 | 2.62 | 2.62 | 2.62 | 2.62 | 295 | 296 | 2.95 | 155 | 3.30 | 3.70 | 270 | 170 |
|  | 98 | 265 | 2.85 | 2.65 | 265 | 2.65 | 2.65 | 268 | 2.65 | 2.65 | 2.65 | 2.65 | 265 | 2.65 | 2.95 | 298 | 2.98 | 2.58 | 372 | 3.72 | 3.72 | 3.72 |
|  | 262 | 2.69 | 2.99 | 2.69 | 2.69 | 2.69 | 2.69 | 2.69 | 2.69 | 2.99 | 2.69 | 2.69 | 2.69 | 2.69 | 195 | 109 | 1.04 |  | 3.14 | 3.7 | 1.24 | 124 |
|  | 308 | 272 | 272 | 272 | 27 | 27 | 2.72 | 272 | 2.7 | 2.72 | 2.7 | 2.72 | 272 | 2.72 | 104 | 104 | 1.04 | 104 | 176 | 1.76 | 1.35 | 125 |
|  | 134 | 2.5 | 2.5 | 275 | 23 | 2.75 | 2.15 | 23 | 2.75 | 2.75 | 2.75 | 2.75 | 2.5 | 2.75 | 306 | 306 | 3.06 | 306 | 3.79 | 3.19 | 3.7 | 3.79 |
|  | 130 | 278 | 278 | 278 | 278 | 278 | 2.75 | 274 | 2.78 | 2.78 | 2.78 | 2.78 | 278 | 2.78 | 109 | 309 | 1.09 | 109 | 181 | 318 | 1.15 | 1.98 |
|  | 125 | 3.12 | 3.12 | 3.12 | 112 | 3.12 | 3.12 | 312 | 3.12 | 3.12 | 3.12 | 1.12 | 312 | 3.12 | 312 | 312 | 1.12 | 1.12 | 3.85 | 3.83 | 383 | 383 |
|  | 282 | 3.14 | 3.45 | 3.54 | 314 | 3.14 | 3.14 | 314 | 1.84 | 3.54 | 3.44 | 1.84 | 3.14 | 3.45 | 124 | 3.14 | 3.14 | 1.24 | 1.85 | 3.5 | 285 | 185 |
|  | 138 | 317 | 3.17 | 117 | 317 | 1.17 | 317 | 117 | 1.17 | 3.17 | 3.17 | 1.17 | 3.17 | 3\%7 | 317 | 189 | 187 | 187 | 187 | 187 | 187 | 187 |
|  | 144 |  |  |  | 350 | 350 | $3 \% 0$ | 350 | 390 | 380 | 350 | 350 | 3.50 | 3.0 | 390 | 350 | 3.90 | 150 | 350 | 3.90 | 330 | 390 |

E-Screen 3\% Roll Width $=122^{\prime \prime}$

|  |  | 24 | 30 | 95 | 42 | 48 | 54 | 66 | 68 | 72 | T | 84 | 98 | 96 | 382 | 108 | 114 | 120 | 126 | 189 | 138 | 144 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 24 | 2.22 | 2.22 | 2.22 | 2.2 | 2.22 | 222 | 2.27 | 222 | 2.22 | 2.22 | 222 | 2.22 | 222 | 2.60 | 2.60 | 2.60 | 2.60 | 1.42 | 3.12 | 1.42 | 1.42 |
|  | 39 | 2.26 | 2.26 | 2.26 | 2.26 | 2.26 | 2.5 | 2.26 | 2.25 | 226 | 226 | 2.26 | 2.26 | 226 | 253 | 2.63 | 2.63 | 263 | 3.44 | 3.44 | 3.44 | 3.44 |
|  | 3 | 2.79 | 2.29 | 2.27 | 229 | 2.29 | 2.79 | 2.29 | 2.27 | 2.20 | 2.29 | 220 | 2.79 | 2.20 | 2.65 | 2.66 | 2.66 | 2.06 | 146 | 3.45 | 3.46 | 1.45 |
|  | 48 | 2.32 | 2.82 | 232 | 232 | 238 | 2 s | 2 st | 238 | 2.38 | 238 | 238 | 232 | 2.58 | 2.65 | 260 | 2.69 | 2.65 | 3.49 | 3.49 | 3.45 | 3.4) |
|  | 4) | 2.16 | 2.05 | 236 | 2.3 | 2.95 | 2.M | 2.5 | 2.35 | 2.3 | 2.30 | 2.38 | 2.3 | 2.3 | 272 | 272 | 2.78 | 2.22 | 154 | 351 | 151 | 158 |
|  | 54 | 2.39 | 2.75 | 233 | 2.39 | 23 | 2.78 | 2.3 | 2.13 | 273 | 2.19 | 2.19 | 2.39 | 2.8 | 2.7 | 274 | 2.4 | 2.24 | 353 | 3.53 | 153 | 153 |
|  | 68 | 2.42 | 2.42 | 242 | 2.42 | 2.42 | 2.42 | 2.42 | 2.42 | 2.42 | 2.42 | 2.42 | 2.42 | 2.42 | 277 | 277 | 2.77 | 2.77 | 3.55 | 3.55 | 355 | 3.55 |
|  | 65 | 2.45 | 2.05 | 245 | 245 | 2.5 | 2.05 | 2.5 | 2.45 | 2.45 | 2.5 | 2.45 | 2.45 | 2.5 | 280 | 2.80 | 280 | 3.89 | 357 | 357 | 157 | 3.57 |
|  | n | 2.48 | 2.48 | 245 | 2.48 | 2.45 | 2.es | 2.45 | 2.45 | 2.48 | 2.45 | 2.48 | 2.48 | 2.48 | 283 | 283 | 2.8 | 283 | 3.59 | 3.35 | 3.59 | 3.59 |
| 点 | 38 | 254 | 2.51 | 251 | 254 | 251 | 2.51 | 251 | 2.51 | 251 | 251 | 2.51 | 254 | 251 | 285 | 2.85 | 2.85 | 285 | 1.62 | 3.68 | 152 | 362 |
| 680 | 84 | 2.54 | 2.54 | 254 | 2.54 | 2.54 | 2.54 | 2.54 | 2.54 | 2.54 | 2.54 | 2.54 | 2.54 | 2.54 | 288 | 288 | 2.88 | 288 | 3.64 | 3.64 | 3.54 | 3.64 |
| 혿 | 9 | 2.57 | 257 | 257 | 257 | 2.57 | 2.57 | 257 | 2.57 | 2.57 | 2.57 | 257 | 257 | 257 | 295 | 2.94 | 2.94 | 2.85 | 3.66 | 3.46 | 186 | 365 |
|  | 96 | 260 | 2.60 | 260 | 2.60 | 2.60 | 2.40 | 2.60 | 2.60 | 2.60 | 2.60 | 2.60 | 2.60 | 2.60 | 293 | 293 | 2.98 | 2.53 | 3.48 | 3.68 | 358 | 368 |
|  | 162 | 2.63 | 2.85 | 2.65 | 263 | 2.88 | 2.65 | 2.65 | 2.63 | 2.68 | 2.68 | 263 | 2.63 | 2.65 | 296 | 2.96 | 2.\% | 2.56 | 130 | 3.70 | $3 \times$ | $3 \%$ |
|  | 208 | 2.66 | 2.85 | 2.65 | 266 | 2.85 | 2.06 | 2.65 | 2.55 | 2.66 | 2.65 | 2.05 | 2.65 | 2.65 | 298 | 298 | 298 | 288 | 172 | 3.72 | 172 | 172 |
|  | 134 | 200 | 2.65 | 269 | 265 | 2.65 | 2.69 | 2.65 | 2.60 | 2.05 | 2.89 | 2.05 | 269 | 2.65 | 308 | 301 | 3.01 | 1.81 | 1.74 | 3.74 | 3.74 | 2.34 |
|  | 120 | 272 | 272 | 272 | 272 | 2.72 | 2.72 | 27 | 2.72 | 2.72 | 2.72 | 272 | $2 \pi$ | 2.72 | 303 | 303 | 1.05 | 3.03 | 3.76 | 3.76 | 3.76 | 3.75 |
|  | 126 | 3.66 | 3.96 | 306 | 306 | 3.06 | 3.96 | 1.6 | 1.05 | 106 | 1.96 | 196 | 366 | 1.06 | 396 | 106 | 1.96 | 106 | 138 | 3.75 | 178 | 378 |
|  | 132 | 108 | 308 | 104 | 36t | 108 | 304 | 108 | 108 | 108 | 108 | 104 | 108 | 150 | 150 | 180 | 180 | 180 | 180 | 310 | 380 | 180 |
|  | 138 | 3.11 | 3.11 | 311 | 311 | 3.11 | 3.11 | 311 | 311 | 3.15 | 3.11 | M11 | 3.11 | 3.82 | 388 | 382 | 3.82 | 382 | 3.82 | 3.82 | 382 | 382 |
|  | 144 |  |  | 198 | 3.8 | 3.94 | 3.84 | 184 | 184 | 1.4 | 184 | 184 | 1.4 | 184 | 184 | 1.81 | 3.88 | 184 | 1.84 | 3.80 | 1.84 | 184 |


|  |  | 24 | 30 | M | 42 | 48 | 94 | 66 | 64 | 72 | \% | 34 | 59 | 96 | 369 | 108 | 124 | 138 | 126 | 182 | 138 | 244 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 24 | 222 | 2.22 | 2.22 | 2.22 | 2.22 | 2.22 | 227 | 2.22 | 2.22 | 2.22 | 2.22 | 222 | 2.22 | 2.60 | 260 | 2.60 | 2.60 | 3.42 | 3.42 | 3.42 | 3.42 |
|  | 30 | 2.25 | 2.76 | 2.25 | 2.26 | 2.25 | 2.25 | 2.5 | 2.25 | 2.36 | 2.36 | 2.35 | 2.26 | 2.25 | 2.63 | 261 | 2.61 | 2.69 | 1.4 | 1.45 | 34 | 1.44 |
|  | 35 | 2.25 | 2.25 | 229 | 225 | 2.25 | 2.29 | 2.3 | 223 | 2.29 | 2.29 | 2.23 | 225 | 2.25 | 2.65 | 266 | 2.66 | 2.66 | 3.46 | 3.46 | 3.46 | 3.45 |
|  | 4 | 2.12 | 2.18 | 232 | 2.8 | 2.8 | 2 R | 23 | 2.88 | 218 | 2.8 | 2.12 | 2.3 | 2.8 | 2.69 | 2.65 | 2.69 | 2.09 | 349 | 3.49 | 149 | 149 |
|  | 58 | 236 | 2.86 | 23 | 2.4 | 2.4 | 2.85 | 2 w | 2.35 | 2.3 | 2.45 | 236 | 2.46 | 2.46 | 272 | 272 | 2.72 | 2.72 | 151 | 1.51 | 151 | 1.51 |
|  | 54 | 2.35 | 2.58 | 2.39 | 239 | 2.83 | 2.59 | 230 | 2.3 | 2.39 | 2.39 | 2.93 | 235 | 2.83 | 2.74 | 274 | 2.74 | 2.34 | 3.53 | 3.53 | 353 | 353 |
|  | 69 | 2.47 | 2.42 | 2.42 | 247 | 2.48 | 2.98 | 24 | 2.42 | 2.42 | 2.48 | 2.22 | 2.47 | 2.4 | 277 | 27 | 2.77 | 277 | 355 | 3.55 | 355 | 3.55 |
|  | 65 | 2.45 | 2.45 | 2.45 | 245 | 2.As | 2.45 | 2.45 | 2.45 | 2.45 | 2.85 | 2.5 | 2.45 | 2.45 | 2.50 | 280 | 2.80 | 280 | 359 | 3.57 | 3.57 | 3.57 |
|  | 7 | 2.48 | 2.48 | 2.48 | 248 | 2.48 | 2.48 | 2.48 | 2.48 | 2.48 | 2.48 | 2.48 | 2.48 | 2.88 | 283 | 283 | 2.88 | 283 | 359 | 3.99 | 159 | 3.59 |
| 号 | 78 | 253 | 2.51 | 258 | 254 | 251 | 2.51 | 251 | 2.51 | 2.51 | 2.51 | 2.51 | 251 | 2.51 | 2.8 | 285 | 295 | 285 | 102 | 3.68 | 352 | 162 |
|  | 84 | 254 | 2.54 | 254 | 2.54 | 2.54 | 2.54 | 2.54 | 2.54 | 2.54 | 2.54 | 2.54 | 2.54 | 2.54 | 288 | 288 | 288 | 288 | 3.44 | 3.64 | 3.44 | 3.64 |
| 土 | 90 | 257 | 257 | 257 | 257 | 297 | 2.57 | 257 | 257 | 2.57 | 2.57 | 257 | 257 | 257 | 298 | 294 | 2.91 | 281 | 1.66 | 3.05 | 156 | 105 |
|  | 96 | 260 | 2.60 | 2.60 | 2.60 | 2.60 | 2.60 | 2.60 | 2.00 | 2.60 | 2.60 | 2.00 | 260 | 2.60 | 233 | 250 | 2.93 | 2.53 | 168 | 3.08 | 3.68 | 2.68 |
|  | 162 | 2.63 | 2.53 | 2.63 | 263 | 2.63 | 2.63 | 2.63 | 2.83 | 2.53 | 2.63 | 263 | 263 | 2.63 | 296 | 256 | 2.8 | 2.5 | 330 | 3.70 | 378 | 3.70 |
|  | 308 | 2.66 | 2.88 | 2.64 | 264 | 2.65 | 2.96 | 2.68 | 2.05 | 2.66 | 2.66 | 2.65 | 266 | 2.66 | 2.98 | 298 | 2.94 | 2.85 | 172 | 3.72 | 372 | 172 |
|  | 134 | 2.65 | 2.65 | 269 | 260 | 2.69 | 2.59 | 2.65 | 2.69 | 2.69 | 2.69 | 2.69 | 268 | 2.65 | 302 | 301 | 1.01 | 101 | 3.74 | 3.74 | 3.74 | 3.74 |
|  | 120 | 2.72 | 2.72 | 272 | 27 | 2.78 | 2.72 | 275 | 27 | 2.2 | 2.72 | 2.72 | 272 | 2.72 | 3.93 | 309 | 3.08 | 193 | 136 | 3.75 | 138 | 1.75 |
|  | 125 | 106 | 106 | 106 | 106 | 106 | 106 | 106 | 106 | 106 | 106 | 106 | 106 | 106 | 106 | 106 | 106 | 106 | 1.78 | 1.75 | 1.78 | 178 |
|  | 132 | 3.68 | 3.08 | 308 | 308 | 3.08 | 3.08 | 3.08 | 3.08 | 308 | 3.08 | $3 \times 8$ | 308 | 3.80 | 380 | 380 | 3.80 | 180 | 3.80 | 380 | 380 | 380 |
|  | 138 | 3.11 | 3.11 | 1.15 | 211 | 1.11 | 3.11 | 1.11 | 1.15 | 1.21 | 1.11 | 1.18 | 3.11 | 198 | 192 | 388 | 39 | 182 | 182 | 39 | 192 | 192 |
|  | 144 |  |  |  | 384 | 3.85 | 3.54 | 3.84 | 3.84 | 384 | 3.84 | 384 | 384 | 3.84 | 384 | 384 | 3.84 | 384 | 3.84 | 3.84 | 384 | 3.84 |

Edessa Roll Width $=118^{\prime \prime}$

|  | 24 | 30 | 3 | 42 | 48 | 94 | 66 | 45 | 72 | 3 | 34 | 59 | 64 | 380 | 104 | 184 | 129 | 125 | 512 | 138 | 144 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 24 | 2.2 | 272 | 2.22 | 2.27 | 222 | 222 | 222 | 2.22 | 2.22 | 2.22 | 2.22 | 22 | 222 | 2.60 | 2.66 | 2.60 |  |  |  |  |  |
| 30 | 2.26 | 2.36 | 2.25 | 2.25 | 2.35 | 2.75 | 2.26 | 2.25 | 2.85 | 2.36 | 2.25 | 2.26 | 2.26 | 265 | 2.63 | 2.65 |  |  |  |  |  |
| 3 | 239 | 22 | 223 | 225 | 220 | 2.2 | 23 | 223 | 229 | 229 | 223 | 229 | 223 | 2.45 | 2.66 | 2.66 |  |  |  |  |  |
| 4 | 2.17 | 2.18 | 232 | 218 | 24 | 2.12 | 281 | 2.38 | 2.12 | 2.18 | 212 | 2.3 | 289 | 2.69 | 269 | 2.69 |  |  |  |  |  |
| $4{ }^{18}$ | 2.36 | 2.36 | 236 | 236 | 235 | 2.56 | 2 x | 2.35 | 2.36 | 2.36 | 236 | 2.36 | 2.36 | 272 | 272 | 2.72 |  |  |  |  |  |
| 54 | 2.39 | 2.39 | 239 | 239 | 239 | 2.39 | 239 | 2.39 | 2.39 | 2.39 | 2.39 | 239 | 2.39 | 2.34 | 234 | 2.74 |  |  |  |  |  |
| 60 | 2.42 | 2.42 | 2.42 | 2.47 | 2.48 | 2.48 | 248 | 2.42 | 2.42 | 2.42 | 242 | 242 | 2.42 | 277 | 277 | 2.77 |  |  |  |  |  |
| 64 | 2.45 | 2.45 | 2.45 | 2.45 | 2.45 | 2.45 | 2.45 | 2.45 | 2.45 | 2.45 | 2.45 | 2.45 | 2.45 | 2.80 | 2.80 | 280 |  |  |  |  |  |
| 7 | 2.48 | 2.43 | 248 | 2.48 | 2.45 | 2.43 | 2.48 | 2.43 | 2.48 | 2.as | 2.4 | 248 | 2.88 | 293 | 283 | 288 |  |  |  |  |  |
| 7 | 251 | 2.51 | 251 | 251 | 2.51 | 2.51 | 2.51 | 2.51 | 2.51 | 2.51 | 231 | 254 | 2.51 | $2{ }^{4}$ | 285 | 285 |  |  |  |  |  |
| 84 | 2.54 | 2.54 | 254 | 254 | 2.54 | 2.54 | 254 | 2.54 | 2.54 | 2.54 | 2.54 | 2.54 | 2.54 | 288 | 288 | 288 |  |  |  |  |  |
| 99 | 257 | 257 | 257 | 257 | 257 | 2.57 | 257 | 2.57 | 257 | 2.57 | 357 | 257 | 257 | 298 | 291 | 2.91 |  |  |  |  |  |
| \$ | 2.60 | 2.60 | 260 | 260 | 2.60 | 2.60 | 260 | 2.60 | 2.60 | 2.60 | 2.60 | 2.60 | 2.80 | 293 | 2.93 | 2.95 |  |  |  |  |  |
| 568 | 263 | 2.63 | 263 | 2.65 | 2.63 | 2.53 | 2.68 | 1.63 | 2.63 | 3.63 | 2.83 | 2.63 | 2.63 | 296 | 2.8 | 2.8 |  |  |  |  |  |
| 108 | 2.66 | 2.66 | 2.06 | 2.65 | 2.65 | 2.96 | 2.66 | 2.06 | 2.66 | 2.66 | 2.05 | 2.66 | 2.60 | 298 | 294 | 2.8 |  |  |  |  |  |
| 134 | 2.69 | 2.05 | 2.65 | 265 | 2.69 | 2.09 | 2.60 | 2.69 | 2.00 | 2.69 | 2.69 | 269 | 2.00 | 105 | 161 | 3.01 |  |  |  |  |  |
| 129 | 272 | 272 | 272 | 27 | 277 | 2.72 | 278 | 2.72 | 2.72 | 2.72 | 2.72 | 27 | 2.72 | 193 | 100 | 1.08 |  |  |  |  |  |
| 125 | 1.06 | 3.06 | 306 | 106 | 1.06 | 3.06 | 106 | 1.06 | 1.06 | 1.06 | 106 | 306 | 3.06 | 306 | 106 | 1.06 |  |  |  |  |  |
| 132 | 3.68 | 3.08 | 308 | 308 | 3.08 | 3.08 | 308 | 3.08 | 3.88 | 3.88 | 308 | 3.68 | 380 | 389 | 3.80 | 3.80 |  |  |  |  |  |
| 139 | 3.11 | 311 | 121 | 111 | 1.11 | 3.11 | 311 | 1.15 | 3.12 | 3.15 | 121 | 3.11 | 38 | 312 | 388 | 189 |  |  |  |  |  |
| 144 |  |  |  | 384 | 1.84 | 3.84 | 384 | 384 | 3.84 | 184 | 384 | 3.84 | 3.84 | 384 | 384 | 184 |  |  |  |  |  |

Oasis Roll Width $=110^{\circ}$


Width


Infniti 25\%
Roll Width $=98^{\circ}$
Width


Linen
Roll Width $=102^{*}$


Width


Island
Roll Width $=110^{*}$


Matte

|  | 24 | 30 | 16 | 42 | 48 | 54 | 60 | 66 | 72 | 71 | 4 | \%0 | 96 | 102 | 154 | 114 | 120 | 125 | 132 | 138 | 144 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 24 | 2.14 | 2.14 | 2.14 | 2.24 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.34 | 252 | 2.52 | 2.52 | 252 | 3.35 | 313 | 1.15 | 135 |
| 30 | 2.16 | 2.16 | 2.15 | 2.25 | 2.16 | 2.16 | 2.16 | 2.16 | 2.16 | 2.16 | 2.16 | 215 | 2.25 | 254 | 2.54 | 2.54 | 2.54 | 3.39 | 3.37 | 337 | 337 |
| W | 2.18 | 218 | 2.18 | 218 | 218 | 218 | 2.88 | 218 | 218 | 2.18 | 2.18 | 218 | 2.88 | 256 | 2.5 | 256 | 256 | 3.8 | 138 | 138 | 338 |
| 4 | 220 | 220 | 2.20 | 2.20 | 220 | 2.20 | 2.20 | 2.20 | 220 | 2.20 | 2.20 | 220 | 220 | 2.58 | 2.5* | 2.55 | 2.58 | 3.38 | 3.35 | 133 | 3.33 |
| 4 | 2.27 | 2.23 | 2.22 | 2.22 | 223 | 232 | 2.22 | 232 | 2.32 | 2.32 | 231 | 2.22 | 2.22 | 2.59 | 2.59 | 2.59 | 2.59 | 3.44 | 1.41 | 149 | 3.45 |
| 54 | 224 | 2.24 | 2.34 | 2.24 | 2.24 | 2.24 | 2.24 | 2.34 | 2.24 | 2.24 | 2.14 | 2.34 | 2.24 | 261 | 2.61 | 2.65 | 2.41 | 1.42 | 142 | 142 | 142 |
| 60 | 226 | 2.26 | 2.25 | 2.25 | 226 | 226 | 2.26 | 2.26 | 2.25 | 2.26 | 2.36 | 220 | 2.35 | 268 | 2.65 | 2.63 | 2.63 | 3.4) | 343 | 143 | 3.43 |
| 66 | 2.28 | 2.28 | 228 | 2.28 | 2.38 | 2.28 | 2.28 | 2.38 | 228 | 2.28 | 2.18 | 2.38 | 2.28 | 2.65 | 2.65 | 2.55 | 265 | 3.45 | 1.45 | 145 | 145 |
| $n$ | 230 | 230 | 2.30 | 230 | 230 | 2.30 | 2.30 | 2.50 | 2.30 | 2.30 | 2.30 | 230 | 2.30 | 266 | 2.66 | 2.66 | 206 | 3.46 | 3.45 | 3.45 | 3.45 |
| 78 | 232 | 238 | 2.32 | 232 | 239 | 234 | 232 | 239 | 238 | 2.32 | 2.32 | 232 | 2.32 | 2.68 | 2.68 | 2.68 | 2.68 | 3.47 | 3.47 | 3.47 | 3.47 |
| 84 | 234 | 2.9 | 2.98 | 234 | 2.4 | 2.3 | 2.4 | 2.3 | 234 | 2.4 | 2.4 | 2.4 | 2.4 | 2.00 | 2.70 | 2.70 | 2.00 | 3.49 | 349 | 143 | 343 |
| 90 | 236 | 286 | 2.56 | 236 | 236 | 2.6 | 2.36 | 2.86 | 25 | 2.86 | 2.36 | 25 | 2.36 | $2 \pi$ | 271 | 2.71 | 271 | 3.50 | 350 | 150 | 359 |
| \% | 2.38 | 2.88 | 2.88 | 2.4 | 2.88 | 2.88 | 2.18 | 2.38 | 2.8 | 2.18 | 2.88 | 2818 | 288 | 2.7 | 2.73 | 2.73 | 273 | 354 | 151 | 35: | 354 |
| 102 | 2.40 | 2.0 | 2.00 | 2.40 | 2.40 | 2.40 | 2.40 | 2.40 | 2.40 | 2.40 | 2.40 | 2.00 | 2.40 | 2.5 | 2.75 | 2.75 | 235 | 353 | 158 | 153 | 153 |
| 208 | 242 | 2.42 | 2.42 | 242 | 242 | 242 | 2.42 | 2.42 | 2.42 | 2.42 | 2.42 | 2.42 | 2.42 | 2.76 | 2.7 | 2.5 | 2.3 | 3.54 | 3.54 | 3.54 | 3.54 |
| 184 | 278 | 2.75 | 2.78 | 271 | 278 | 2.78 | 278 | 2.78 | 278 | 2.78 | 278 | 2.75 | 2.28 | 2.88 | 2.74 | 273 | 278 | 355 | 155 | 155 | 155 |
| 120 | 285 | 2.80 | 2.80 | 280 | 280 | 2.80 | 2.86 | 2.80 | 2.80 | 280 | 2.80 | 280 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 357 | 3.57 | 4.57 | 3.57 |
| 126 | 2.48 | 2.81 | 2.85 | 2.8 | 284 | 288 | 2.81 | 2.81 | 284 | 2.8 | 2.4 | 281 | 288 | 2.81 | 358 | 158 | 388 | 358 | 388 | 154 | 354 |
| 132 | 281 | 2 Es | 213 | 283 | 281 | 281 | 2.83 | 281 | 2 m | 2.81 | 281 | 285 | 283 | 281 | 159 | 1.99 | 159 | 159 | 159 | 1.50 | 159 |
| 138 |  |  |  | 369 | 360 | 360 | 3.60 | 3.60 | 360 | 860 | 3.60 | 360 | 360 | 3.60 | 3.60 | 3.60 | 3.60 | 3.60 | 3.60 | 360 | 369 |
| 344 |  |  |  | 162 | 1.6 | 167 | 162 | 367 | 167 | 167 | 36 | 168 | 162 | 1.6 | 167 | 152 | 167 | 1.6 | 162 | 162 | 162 |

## Width



Cirrus
Roll Width $=110^{\text {n }}$
Width


SW 2390 5\%
Roll Width $=126^{\text {" }}$
Width

|  | 24 | 30 | 36 | 42 | 41 | 54 | 60 | 46 | 72 | 71 | 4 | 50 | 9 | 102 |  | 114 | 120 | 125 | 132 | 138 | 144 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 24 | 2.15 | 2.19 | 2.19 | 2.19 | 2.19 | 2.15 | 2.59 | 2.19 | 2.19 | 2.15 | 2.19 | 2.19 | 2.37 | 257 | 2.57 | 2.57 | 257 | 3.40 | 3.49 | 1.49 | 149 |
| 30 | 2.22 | 2.2 | 2.22 | 222 | 2.22 | 2.22 | 2.22 | 2.22 | 222 | 2.22 | 2.22 | 2.22 | 2.22 | 2.60 | 2.60 | 2.60 | 2.60 | 3.41 | 1.41 | 3.41 | 3.41 |
| 3 | 2.25 | 2.35 | 2.5 | 2.25 | 2.35 | 2.35 | 2.25 | 2.35 | 2.35 | 2.25 | 2.15 | 2.25 | 2.85 | 2.69 | 2.6! | 2.62 | 2.63 | 3.45 | 14) | 34) | 343 |
| e | 2.28 | 2.23 | 2.28 | 2.28 | 2.28 | 2.28 | 2.28 | 2.38 | 2.25 | 2.28 | 2.75 | 2.25 | 2.28 | 2.65 | 2.68 | 2.65 | 265 | 1.45 | 3.45 | 1.45 | 145 |
| 4t | 231 | 231 | 2.31 | 231 | 231 | 231 | 2.31 | 2.51 | 231 | 2.31 | 2.81 | 231 | 2.31 | 2.69 | 2.67 | 2.67 | 2.97 | 3.47 | 3.47 | 3.47 | 3.47 |
| 14 | 233 | 238 | 233 | 233 | 238 | 2.13 | 2.13 | 2.38 | 239 | 2.13 | 2.13 | 231 | 2.3 | 2.69 | 2.99 | 2.99 | 2.99 | 3.49 | 149 | 1.49 | 149 |
| 60 | 236 | 2.6 | 2.36 | 236 | 236 | 236 | 236 | 2.36 | 236 | 2.36 | 2.16 | 2.3 | 236 | $2 \pi$ | 2.72 | 2.72 | 272 | 3.51 | 1.51 | 1.51 | 151 |
| 66 | 239 | 239 | 2.39 | 239 | 230 | 239 | 239 | 239 | 239 | 239 | 2.39 | 239 | 239 | 2.4 | 2.4 | 2.74 | 234 | 353 | 3.53 | 353 | 3.53 |
| $\boldsymbol{n}$ | 2.43 |  | 2.42 | 2.42 | 2.48 | 2.33 | 2.42 | 2.49 | 2.47 | 2.42 | 2.47 | 2.42 | 2.22 | 27 | 277 | 277 | 277 | 355 | 155 | 155 | 155 |
| ㄷ. | 244 | 2.44 | 2.44 | 2.44 | 2.44 | 2.44 | 2.44 | 2.44 | 2.44 | 2.44 | 2.44 | 2.45 | 2.44 | 239 | $2 \%$ | 2.73 | 23 | 356 | 3.56 | 3.56 | 3.56 |
| $\cdots$ | 247 | 2.47 | 2.47 | 2.47 | 2.47 | 2.47 | 2.47 | 2.47 | 2.47 | 2.47 | 2.47 | 2.47 | 2.47 | 2.81 | 281 | 281 | 2.51 | 3.58 | 388 | 158 | 158 |
| 宔 90 | 2.45 | 2.9 | 2.49 | 2.43 | 2.49 | 2.49 | 249 | 2.49 | 2.49 | 249 | 2.49 | 2.45 | 2.9 | 2.4 | 2.04 | 2.54 | 2.4 | 3.60 | 369 | 300 | 169 |
| 5 | 252 | 2.52 | 2.52 | 252 | 252 | 254 | 252 | 2.52 | 258 | 2.52 | 2.52 | 2.52 | 2.52 | 2.6 | 285 | 285 | 286 | 3.68 | 362 | 382 | 362 |
| 268 | 255 | 255 | 2.55 | 255 | 255 | 255 | 255 | 255 | 255 | 255 | 2.55 | 255 | 2.55 | 2.88 | 2.85 | 288 | 2.8 | 3.64 | 3.54 | 344 | 344 |
| 188 | 259 | 2.57 | 2.57 | 257 | 2.59 | 258 | 257 | 2.57 | 257 | 2.57 | 2.57 | 257 | 2.57 | 290 | 290 | 2.90 | 250 | 165 | 185 | 1.65 | 165 |
| 134 | 266 | 2.60 | 2.60 | 260 | 2.60 | 2.66 | 2.66 | 2.60 | 2.60 | 260 | 2.60 | 2.60 | 2.60 | 2.93 | 2.85 | 2.93 | 293 | 3.67 | 3.87 | $\mathbf{4 9 7}$ | 367 |
| 120 | 25 | 296 | 2.85 | 295 | 296 | 295 | 255 | 296 | 296 | 2.95 | 2.95 | 295 | 2.95 | 255 | 258 | 2.95 | 255 | 3.69 | 169 | 109 | 169 |
| 125 | 295 | 298 | 2.97 | 298 | 2.97 | 298 | 2.98 | 2.50 | 298 | 2.59 | 297 | 297 | 259 | 297 | 2.9 | 2.97 | 290 | 371 | 3.71 | 3.71 | 3.71 |
| 132 | 295 | 2.99 | 2.99 | 299 | 290 | 298 | 298 | 290 | 298 | 2.99 | 299 | 299 | 299 | 37 | 372 | 37 | 372 | 37 | 3.72 | 372 | 3.72 |
| 139 |  |  |  | 374 | 374 | 374 | 374 | 374 | 174 | 1.74 | 3.74 | 3.7 | 174 | 134 | 3.74 | 174 | 374 | 374 | 1.75 | 1.74 | 374 |
| 144 |  |  |  | 3.35 | 37 | 376 | 136 | 376 | 3.56 | 3.3 | 3.76 | 3.76 | 3.75 | 376 | 3.76 | 1.75 | 385 | 3.76 | 3.75 | 8.76 | 3.75 |

Width

|  |  | 24 | 39 | 15 | 42 | 48 | 54 | 64 | 6 | $\boldsymbol{\pi}$ | 78 | 84 | 90 | 9 | 109 | 808 | 234 | 220 | 285 | 232 | 138 | 344 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 20 | 221 | 2.21 | 2.21 | 223 | 2.21 | 2.21 | 2.21 | 2.31 | 2.21 | 2.23 | 273 | 221 | 2.21 | 2.59 | 2.59 | 2.59 | 2.59 | 3.45 | 341 | 143 | 348 |
|  | 30 | 224 | 2.4 | 2.24 | 224 | 2.24 | 2.24 | 2.24 | 2.24 | 2.24 | 2.24 | 2.24 | 2.24 | 2.24 | 2.6 | 2.62 | 2.62 | 2.42 | 14) | 14) | 1.43 | 14) |
|  | 3 | 228 | 2.28 | 2.88 | 228 | 2.28 | 228 | 2.28 | 2.28 | 2.28 | 2.28 | 2.28 | 2.25 | 2.28 | 2.65 | 2.65 | 2.65 | 2.6 | 3.45 | 3.45 | 3.45 | 3.45 |
|  | 4 | 2.31 | 2.7 | 2.15 | 233 | 239 | 2.34 | 2.13 | 2.31 | 239 | 213 | 2.31 | 2.15 | 2.31 | 267 | 2.67 | 2.97 | 267 | 3.48 | 3.45 | 1.48 | 348 |
|  | -s | 2.34 | 2.94 | 2.34 | 234 | 234 | 2.34 | 2.34 | 2.94 | 2.34 | 2.34 | 2.54 | 2.54 | 2.34 | 230 | 2.70 | 2.00 | 2.0 | 350 | 350 | 3.50 | 3.50 |
|  | 84 | 2.39 | 2.87 | 2.37 | 239 | 2.39 | 2.37 | 2.37 | 2.39 | 2.77 | 2.79 | 2.39 | 237 | 239 | 23 | 2.75 | 2.73 | 2.7 | 3.94 | 152 | 152 | 152 |
|  | 60 | 240 | 2.40 | 2.00 | 2.40 | 2.40 | 240 | 2.40 | 2.40 | 2.40 | 2.40 | 2.40 | 2.00 | 2.40 | 23 | 2.75 | 2.75 | 235 | 354 | 354 | 3.54 | 354 |
|  | 66 | 243 | 2.43 | 2.43 | 2.43 | 2.43 | 2.43 | 2.43 | 2.43 | 2.45 | 2.43 | 2.43 | 2.45 | 2.43 | 2.88 | 2.78 | 2.73 | 2.8 | 3.56 | 385 | 3.56 | 355 |
|  | n | 246 | 2.5 | 2.45 | 246 | 2.46 | 246 | 2.46 | 2.46 | 2.4 | 2.45 | 2.45 | 2.45 | 2.45 | 284 | 2.81 | 2.81 | 283 | 358 | 158 | 358 | 358 |
| 닫 | T3 | 2.45 | 2.08 | 2.a) | 2.49 | 248 | 2.45 | 2.45 | 2.45 | 2.45 | 2.45 | 2.49 | 2.4 | 2.49 | 283 | 2.85 | 283 | 283 | 3.60 | 3.60 | 360 | 360 |
| $\overline{00}$ | 84 | 254 | 288 | 2.98 | 259 | 2.89 | 254 | 2.52 | 289 | 287 | 2.58 | 2.82 | 258 | 2.58 | 2.86 | 2.86 | 2.85 | 2.6 | 3.62 | 3.62 | 162 | 362 |
| I | 90 | 255 | 258 | 2.55 | 255 | 258 | 255 | 255 | 258 | 255 | 255 | 2.58 | 258 | 2.58 | 288 | $2{ }^{2}$ | 258 | 288 | 3.45 | 364 | 1.4 | 144 |
|  | 9 | 258 | 2.58 | 2.58 | 258 | 2.58 | 258 | 2.58 | 2.58 | 2.58 | 2.58 | 2.88 | 2.58 | 2.58 | 2.51 | 2.91 | 2.91 | 291 | 3.66 | 3.65 | 365 | 365 |
|  | 302 | 2.60 | 2.60 | 2.40 | 2.60 | 2.60 | 260 | 260 | 2.60 | 2.60 | 2.60 | 2.60 | 260 | 2.00 | 293 | 298 | 2.93 | 293 | 3.68 | 1.68 | 1.88 | 364 |
|  | 1088 | 263 | 2.65 | 2.63 | 263 | 2.63 | 263 | 2.8 | 2.65 | 2.65 | 2.63 | 2.63 | 2.65 | 263 | 2.56 | $2 \% 6$ | 2.96 | 296 | 3.0 | 3.70 | 8.70 | 37 |
|  | 124 | 2.64 | 2.66 | 2.46 | 2.64 | 2.66 | 2.66 | 2.66 | 2.65 | 2.66 | 2.66 | 2.66 | 2.05 | 2.65 | 258 | 2.88 | 2.93 | 258 | 372 | 172 | 172 | 27 |
|  | 120 | 104 | 101 | 101 | 309 | 101 | 309 | 101 | 101 | 101 | 108 | 3.01 | 301 | 108 | 101 | 1.01 | 105 | 101 | 3.74 | 1.4 | 124 | 374 |
|  | 126 | 360 | 363 | 3.33 | 363 | 3.63 | 363 | 3 Ps | 303 | 363 | 363 | 3.05 | 303 | 363 | 303 | 3.35 | 303 | 383 | 3.5 | 3.75 | 3.75 | 375 |
|  | 132 | 105 | 105 | 105 | 105 | 105 | 305 | 105 | 3.05 | 306 | 105 | 3.05 | 105 | 3.78 | 178 | 178 | 1.73 | 178 | 3.75 | 3.73 | 178 | 178 |
|  | 138 | 308 | 308 | 3.08 | 308 | 3.08 | 3.8 | 3.08 | 3.08 | 308 | 308 | 308 | 308 | 3.70 | 339 | 3.79 | 3.73 | 3.3 | 3.9 | 3.73 | 3.39 | 373 |
|  | 144 |  |  |  | 385 | 3.84 | 384 | 183 | 3.81 | 3.81 | 1.83 | 341 | 381 | 385 | 384 | 381 | 381 | 181 | 3.81 | 3.81 | 181 | 38 |

SW 2500 1\%
Roll Width $=126^{\prime \prime}$


Columns Roll Width $=94^{*}$



Tones Blackout
Roll Width $=78^{*}$


Chantilly



Eternity
Roll Width $=94^{*}$


Eternity Blackout $\quad$ Roll Width $=94^{*}$




Vizela
Roll Width $=78^{\circ}$

|  |  | 34 | 30 | 3 | 42 | 48 | 54 | 68 | 66 | $\boldsymbol{n}$ | 78 | 84 | 90 | 9 | 100 | 538 | 184 | 120 | 185 | 132 | 138 | 144 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 24 | 2.5 | 2.15 | 2.15 | 215 | 2.15 | 2.15 | 2.15 | 2.15 | 2.5 | 2.15 | 2.15 | 2.15 | 2.15 | 253 | 2.53 | 2.53 | 253 | 3.36 | 3.35 | 335 | 3.35 |
|  | 30 | 2.17 | 2.17 | 2.17 | 2.87 | 2.7 | 2.37 | 2.17 | 2.17 | 2.7 | 2.17 | 2.7 | 217 | 2.17 | 255 | 2.55 | 2.55 | 255 | 3.18 | 1.38 | 1.38 | 138 |
|  | 3 | 2.15 | 219 | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 | 2.19 | 2.15 | 2.3 | 2.57 | 2.57 | 257 | 259 | 338 | 23) | 1.35 | 3.39 |
|  | 4 | 2.25 | 2.21 | 2.21 | 2.21 | 2.31 | 2.21 | 2.21 | 2.31 | 2.31 | 2.31 | 2.11 | 2.21 | 2.21 | 259 | 2.59 | 2.59 | 259 | 3.48 | 141 | 345 | 341 |
|  | 4 | 2.24 | 2.24 | 2.24 | 2.24 | 2.24 | 2.24 | 2.24 | 2.24 | 2.24 | 2.24 | 2.14 | 2.24 | 2.24 | 261 | 2.61 | 2.61 | 2.61 | 1.42 | 1.42 | 1.42 | 142 |
|  | 54 | 2.26 | 2.26 | 2.26 | 2.26 | 226 | 2.26 | 2.26 | 2.26 | 2.26 | 2.26 | 2.26 | 2.26 | $2 \times 5$ | 263 | 2.65 | 2.65 | 263 | 3.43 | 3.43 | 3.43 | 3.43 |
|  | 40 | 228 | 2.38 | 2.24 | 2.28 | 2.38 | 2.38 | 2.28 | 2.38 | 2.38 | 2.28 | 2.78 | 2.38 | 2.28 | 2.65 | 2.65 | 2.65 | 2.65 | 1.45 | 1.45 | 145 | 3.45 |
|  | 66 | 2.30 | 230 | 2.30 | 230 | 230 | 2.30 | 2.30 | 2.30 | 230 | 230 | 2.30 | 230 | 230 | 267 | 2.67 | 2.67 | 2.97 | 3.46 | 3.45 | 3.45 | 3.45 |
|  | 72 | 2.32 | 2.9 | 2.22 | 232 | 234 | 234 | 232 | 239 | 234 | 238 | 2.19 | 238 | 2.32 | 268 | 2.65 | 2.64 | 2.68 | 3.48 | 3.48 | 148 | 3.48 |
| $\stackrel{\rightharpoonup}{r}$ | \% | 2.35 | 235 | 2.85 | 235 | 235 | 235 | 2.35 | 2.35 | 238 | 2.35 | 2.85 | 2.5 | 2.35 | 2.30 | 2.70 | 2.70 | 2.30 | 3.45 | 3.4) | 3.43 | 3.4) |
|  | 84 | 2.77 | 237 | 2.17 | 2.37 | 238 | 2.39 | 2.37 | 2.75 | 2.37 | 2.77 | 2.37 | 237 | 2.72 | 272 | 2.72 | 2.72 | 27 | 351 | 351 | 151 | 354 |
| I | 90 | 2.39 | 2.3 | 2.19 | 273 | 2.39 | 2.35 | 2.35 | 2.78 | 2.3 | 2.39 | 2.19 | 23 | 2.7 | 2.4 | 2.74 | 2.78 | 274 | 159 | 358 | 152 | 152 |
|  | 5 | 2.41 | 2.41 | 2.41 | 2.41 | 2.41 | 241 | 2.41 | 2.41 | 241 | 2.41 | 2.41 | 2.41 | 2.41 | 276 | 2.5 | 2.75 | 236 | 353 | 353 | 353 | 353 |
|  | 382 | 243 | 2.43 | 2.43 | 2.43 | 2.43 | 243 | 2.43 | 2.43 | 2.4 | 2.43 | 2.43 | 243 | 2.43 | 27 | 277 | 277 | 27 | 355 | 155 | 255 | 355 |
|  | 108 | 2.45 | 2.8 | 2.45 | 2.45 | 2.48 | 245 | 2.45 | 2.45 | 2.43 | 2.45 | 2.45 | 2.45 | 2.45 | 279 | 2.7 | 273 | 239 | 356 | 3.55 | 3.56 | 358 |
|  | 154 | 284 | 281 | 281 | 283 | 2.84 | 281 | 2.81 | 281 | 2.81 | 288 | 2.41 | 281 | 288 | 281 | 281 | 231 | 281 | 3.58 | 358 | 388 | 358 |
|  | 129 | 283 | 2.88 | 2.83 | 283 | 281 | 281 | 2.3 | 288 | 288 | 288 | 283 | 288 | 283 | 283 | 281 | 283 | 283 | 359 | 159 | 159 | 159 |
|  | 126 | 2.ss |  | 2.8 | 2 Ss | 288 | 2 AS | 2.85 | 285 | 285 | 285 | 285 | 2 发 | 285 | 285 | 3.60 | 160 | 160 | 1.60 | 3.60 | 1.00 | 3.6 |
|  | 132 | 286 | 286 | 2.85 | 285 | 2.86 | 286 | 2.8 | 2.86 | 286 | 286 | 2.85 | 285 | 266 | 286 | 3.62 | 3.62 | 362 | 3.62 | 3.62 | 362 | 362 |
|  | 138 |  |  |  | 363 | 363 | 361 | 163 | 3.61 | 163 | 163 | 363 | 163 | 163 | 163 | 361 | 163 | 163 | 3.61 | 363 | $\mathbf{4 6}$ | 363 |
|  | 144 |  |  |  | 365 | 3.65 | 3.65 | 3.65 | 3.65 | 3.65 | 165 | 3.65 | 3.65 | 365 | 365 | 3.65 | 3.65 | 3.65 | 3.65 | 3.65 | 3.65 | 3.65 |

Flocke'
Roll Width $=78^{-}$


## Qmotion

| $Q \wedge / O$ | $\operatorname{ti}^{\prime} \cap \cap{ }^{R}$ | $\bigcirc 10$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Collection | Color Name | Color \# | Standard Color for endcaps, hembars \& fascia | Collection | Color Name | Color \# | Standard Color for endcaps, hembars \& fascia |
|  |  |  |  | Bali | Marsh | 80G0135 | Bronze |
| SW 2701 1\% | Oyster/Beige | 80P0246 | Sand | Bali | Mocha | 80G0136 | Bronze |
| SW 2701 1\% | Oyster Pewter | 80P0064 | Silver | E-Screen 1\% | White/White | 80M0053 | White |
| SW 2701 1\% | Oyster Chestnut | 80P0065 | Bronze | E-Screen 1\% | White/Linen | 80M0054 | White |
| SW 2701 1\% | Oyster Charcoal | 80P0066 | Black | E-Screen 1\% | Charcoal/Bronze | 80M0055 | Bronze |
| SW 2703 3\% | Oyster/Beige | 80P0247 | Sand | E-Screen 1\% | Charcoal/Charcoal | 80M0056 | White |
| SW 2703 3\% | Oyster Pewter | 80P0068 | Silver | E-Screen 1\% | Linen/Linen | 80M0129 | Silver |
| SW 2703 3\% | Oyster Chestnut | 80P0069 | Bronze | E-Screen 10\% | White/White | 80M0007 | White |
| SW 2703 3\% | Oyster Charcoal | 80P0070 | Black | E-Screen 10\% | White/Linen | 80M0008 | White |
| SW 2705 5\% | Oyster/Beige | 80P0248 | Sand | E-Screen 10\% | Charcoal/Bronze | 80M0009 | Bronze |
| SW 2705 5\% | Oyster Pewter | 80P0072 | Silver | E-Screen 10\% | Charcoal/Charcoal | 80M0010 | Black |
| SW 2705 5\% | Oyster Chestnut | 80P0073 | Bronze | E-Screen 10\% | Pearl/Linen | 80M0011 | Silver |
| SW 2705 5\% | Oyster Charcoal | 80P0074 | Black | E-Screen 10\% | Linen/Linen | 80M0130 | Silver |
| SW 4000 5\% | Chalk | 80P0075 | White | E-Screen 3\% | White/White | 80M0058 | White |
| SW 4000 5\% | Alabaster | 80P0076 | White | E-Screen 3\% | White/Linen | 80M0059 | White |
| SW 4000 5\% | Pebblestone | 80P0077 | Sand | E-Screen 3\% | Charcoal/Bronze | 80M0060 | Bronze |
| SW 4000 5\% | Greystone | 80P0078 | Silver | E-Screen 3\% | Charcoal/Charcoal | 80M0061 | Black |
| SW 4000 5\% | Pewter | 80P0079 | Silver | E-Screen 3\% | Linen/Linen | 80M0131 | Silver |
| SW 4000 5\% | Tobacco | 80P0080 | Bronze | E-Screen 5\% | White/White | 80M0002 | White |
| SW 4000 5\% | Ebony | 80P0081 | Black | E-Screen 5\% | White/Linen | 80M0003 | White |
| SW 4400 3\% | Chalk | 80P0082 | White | E-Screen 5\% | Charcoal/Bronze | 80M0004 | Bronze |
| SW 4400 3\% | Alabaster | 80P0083 | White | E-Screen 5\% | Charcoal/Charcoal | 80M0005 | Black |
| SW 4400 3\% | Pebblestone | 80P0084 | Sand | E-Screen 5\% | Linen/Linen | 80M0132 | Silver |
| SW 4400 3\% | Greystone | 80P0085 | Silver | Oasis | Gold | 80G0137 | Sand |
| SW 4400 3\% | Pewter | 80P0086 | Silver | Oasis | Bronze | 80G0138 | Bronze |
| SW 4400 3\% | Tobacco | 80P0087 | Bronze | Oasis | Platinum | 80G0139 | Black |
| SW 4400 3\% | Ebony | 80P0088 | Black | Infiniti 3\% | PG2 Almond | 80P0095 | Sand |
| SW 4800 1\% | Chalk | 80P0089 | White | Infiniti 3\% | PG 4 Stone | 80 P0249 | Silver |
| SW 4800 1\% | Alabaster | 80P0090 | White | Infiniti 3\% | PG1 Cotton | 80P0096 | White |
| SW 4800 1\% | Taupe | 80G0242 | Sand | Infiniti 3\% | VG4 Slate | 80P0250 | Silver |
| SW 4800 1\% | Grey | 80G0243 | Silver | Infiniti 3\% | QG1 Barley | 80P0098 | Sand |
| SW 4800 1\% | Clay | 80M0244 | Silver | Infiniti 3\% | VG1 Nickel | 80P0099 | Silver |
| SW 4800 1\% | Pearl | 80P0091 | White | Infiniti 5\% | PG2 Almond | 80P0101 | Sand |
| SW 4800 1\% | Sand | 80P0091 | Sand | Infiniti 5\% | PG1 Cotton | 80P0102 | White |
| Fiji | Latte | 80G0133 | Bronze | Infiniti 5\% | VG2 Midnight | 80P0103 | Black |
| Fiji | Mocha | 80G0134 | Bronze | Infiniti 5\% | PG4 Stone | 80P0251 | Silver |
| Avila Twilight | Pearl | 80M0037 | White | Infiniti 5\% | QG1 Barley | 80P0104 | Sand |
| Avila Twilight | White | 80M0038 | White | Infiniti 5\% | VG3 Bark | 80P0106 | Bronze |
| Avila Twilight | Linen | 80M0039 | Sand | Linen | White | 80G0140 | White |
| Avila Twilight | Chocolate | 80M0040 | Bronze | Linen | Ivory | 80G0141 | Sand |
| Avila Twilight | Slate Grey | 80M0041 | Silver | Linen | Beige | $80 \mathrm{G0142}$ | Sand |
| Avila Twilight | Black | 80M0128 | Black | Linen | Mushroom | 80G0143 | Bronze |

## Qmotion

## QMotion® Color Listings

| Collection | Color Name | Color \# | Standard Color for endcaps, hembars \& fascia | Collection | Color Name | Color \# | Standard Color for endcaps, hembars \& fascia |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Linen | Toffee | 80G0144 | Bronze | SW 2500 1\% | Charcoal/Grey | 80P0241 | Silver |
| Linen | Mocha | 80G0145 | Bronze | SW 2500 1\% | Charcoal | 80P0126 | Silver |
| M-Screen | White | 80M0018 | White | SW 2500 1\% | Charcoal Chestnut | 80P0127 | Bronze |
| M-Screen | White Stone | 80M0020 | White | Columns | White | 80G0157 | White |
| M-Screen | Charcoal/Apricot | 80M0017 | Bronze | Columns | Ivory | 80G0158 | Sand |
| M-Screen | Charcoal/Sable | 80M0019 | Bronze | Columns | Brown | 80G0159 | Bronze |
| M-Screen | Cocoa/Charcoal | 80M0021 | Bronze | Tones | Red | 80J0172 | White |
| Island | Mushroom | 80G0146 | Sand | Tones | Carnation | 80J0169 | White |
| Island | Cherry | 80G0147 | Sand | Tones | Rose | 80J0170 | White |
| Island | Brown | 80G0148 | Bronze | Tones | Cherry | 80J0171 | Sand |
| Island | Chocolate | 80G0149 | Bronze | Tones | Toffee | 80J0173 | Bronze |
| Matte | White | 80B0160 | White | Tones | Brown | 80J0174 | Bronze |
| Matte | Linen | 80B0161 | Sand | Tones | Aqua | 80J0175 | Silver |
| Matte | Fawn | 80B0162 | Sand | Tones | Teal | 80J0176 | White |
| Matte | Stone Duplex | 80B0163 | Silver | Tones | Sea Foam | 80J0177 | White |
| Matte | Black/White | 80B0164 | Black | Tones | Black | 80J0178 | Black |
| Nature Screen | Black | 80G0150 | Black | Tones | Gray | 80J0179 | Silver |
| Nature Screen | Grey | 80G0151 | Silver | Tones | Light Gray | 80J0180 | Silver |
| Nature Screen | White | 80G0152 | White | Tones | Alabaster | 80J0181 | Silver |
| Nature Screen | Ivory | 80G0153 | White | Tones | Violet | 80J0182 | White |
| Cirrus | White | 80G0154 | White | Tones | Majesty | 80J0183 | White |
| Cirrus | Ivory | 80G0155 | White | Tones | Navy | 80J0184 | Silver |
| Cirrus | Golden | 80G0156 | Sand | Tones | Royal Blue | 80J0185 | White |
| SW 2390 5\% | Oyster | 80P0107 | White | Tones | Atlantic | 80J0186 | White |
| SW 2390 5\% | Oyster Beige | 80P0108 | Sand | Tones | Sky Blue | 80J0187 | White |
| SW 2390 5\% | Oyster Pearl Grey | 80P0238 | Silver | Tones | Powder | 80J0188 | White |
| SW 2390 5\% | Beige Pearl Grey | 80P0110 | Sand | Tones | Turquoise | 80J0189 | White |
| SW 2390 5\% | Charcoal Grey | 80P0239 | Silver | Tones | Otter | 80J0190 | Sand |
| SW 2390 5\% | Charcoal | 80P0112 | Silver | Tones | Sand | 80J0191 | Sand |
| SW 2390 5\% | Charcoal Chestnut | 80P0113 | Bronze | Tones | Wheat | 80J0192 | Sand |
| SW 2410 3\% | Oyster | 80P0114 | White | Tones | Desert | 80J0193 | Sand |
| SW 2410 3\% | Oyster Beige | 80P0115 | Sand | Tones | Cream | 80J0194 | Sand |
| SW 2410 3\% | Beige | 80P0116 | Sand | Tones | Blizzard | 80J0195 | White |
| SW 2410 3\% | Charcoal Grey | 80P0237 | Silver | Tones Blackout | Light Gray | 80J0201 | Silver |
| SW 2410 3\% | Oyster/Pearl Grey | 80P0236 | Silver | Tones Blackout | Desert | 80J0207 | Sand |
| SW 2410 3\% | Beige Pearl Grey | 80P0117 | Sand | Chantilly | White | 80J0209 | White |
| SW 2410 3\% | Charcoal Chestnut | 80P0120 | Bronze | Chantilly | Gray | 80J0210 | Silver |
| SW 2500 1\% | Oyster | 80P0121 | White | Chantilly | Silver | 80J0211 | Silver |
| SW 2500 1\% | Oyster/Pearl Grey | 80P0240 | Silver | Chantilly | Cream | 80J0212 | Sand |
| SW 2500 1\% | Oyster Beige | 80P0122 | Sand | Chantilly | Khaki | 80J0213 | Sand |
| SW 2500 1\% | Beige Pearl Grey | 80P0124 | Sand | Chantilly | Toffee | 80J0214 | Bronze |



| Collection | Color Name | Color \# | Standard Color for endcaps, hembars \& fascia | Collection | Color Name | Color \# | Standard Color for endcaps, hembars \& fascia |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Chantilly | Brown | 80J0215 | Bronze | Vizela | Mississippi | 80M0030 | Sand |
| Chantilly | Black | 80J0216 | Black | Vizela | Sahel | 80M0031 | Sand |
| Chantilly Blackout | White | 80J0217 | White | Flocke | Sahel | 80M0042 | Sand |
| Chantilly Blackout | Khaki | 80J0219 | Sand | Flocke | Blanc | 80M0043 | White |
| Chantilly Blackout | Black | 80J0220 | Black | Flocke | Mississippi | 80M0044 | Sand |
| Eternity | Silver | 80J0221 | Silver | Flocke | Loutre | 80M0045 | Silver |
| Eternity | Gold | 80J0222 | Black | Flocke | Chartreux | 80M0046 | Silver |
| Eternity | Bronze | 80J0223 | Bronze | Edessa | Reef | 80M0252 | Sand |
| Eternity Pearl | Pearl Platinum | 80J0224 | Black | Edessa | Glacier | 80M0253 | White |
| Eternity Pearl | Pearl Silver | 80J0225 | Sand | Edessa | Beach | 80M0254 | Sand |
| Metallic | Silver | 80J0226 | Silver | Edessa | Savannah | 80M0255 | Sand |
| Metallic | Gold | 80J0227 | Bronze | Edessa | Arctic | 80M0256 | White |
| Vizela | Blanc | 80M0027 | White | Edessa | Desert | 80M0257 | Sand |
| Vizela | Chartreux | 80M0028 | Silver | Edessa | Tundra | 80M0258 | Bronze |
| Vizela | Loutre | 80M0029 | Silver | Edessa | Mesa | 80M0259 | Bronze |

# Qmotion 

## Accessories

Finishing touches for a beautiful QMotion experience.

## Fascia

- Fascia is available in any of the 5 standard colors or fabric wrapped. (White, Silver, Sand, Bronze, Black)
- Fabric wrapped option covers front face and bottom face of fascia.
- All fascia includes light sealing wool pile to further assist in light blocking on the top of the shade.
- All fabric wrapped fascia ship with the same fabric and fabric color as the shade, unless otherwise requested.
- Shipping charges for fascia are included with the shade if ordered with the shade, unless there are excess size charges from the freight carrier.
- Fascia not ordered to fit individual shades will be charged additional shipping charges.


- To ensure proper fit and function, inside mount fascia are cut $1 / 16$ " less than the top window width. Outside mount fascia are cut $1 / 4^{\prime \prime}$ larger than the bracket to bracket dimensions.
- For applications when fascia depth does not meet the minimum depth requirements, please contact your customer care representative for fit and finish options.


## Fascia endcap options

- Fascia endcaps provide a clean look to the sides of the fascia on outside mounts or when the fascia extends out from the window frame on inside mounts.
- Endcaps are color coordinated with fascia.
- All fascia orders include endcaps.
- For inside mount applications, if fascia extends beyond opening, endcaps may be cut in the field for custom fit.
- For inside mount applications, where window opening depth exceeds shade and fascia depth, no endcaps are needed.
- Endcaps extend $1 / 16$ " beyond fascia.


# Qmotion ${ }^{\circ}$ 

## QMotion ${ }^{\circledR}$ Controls

## QMotion® Single Channel 5 Button Remote

- 5 buttons to support up, down, $25 \% 50 \%, 75 \%$
- Magnetic back for simple storing to wall plates
- Controls unlimited number of shades in a group
- Normal remote range: 30 feet



## QMotion® Programmable Timer Remote

- Programmed automated settings in addition to the single channel 5 button remote controls
- Low transmission power, must locate close to shades or Qrelay
- Supports as many as 6 events
- Windows PC programmable
- Time of day, days of week, sunrise/sunset settings
- Normal remote range: 10 feet



## QMotion® Multichannel Remote

- Up to 6 individual or group settings
- All shades programmed to a multichannel remote are controlled together with an "ALL" button on same remote
- Supports up, down, $25 \%, 50 \%, 75 \%$ actions
- LED light feedback
- Motion activated zone indicated when remote is moved
- Normal remote range: 30 feet



## Qmotion*

## QMotion ${ }^{\circledR}$ Qconnect

The Qconnect Interface is a bridge between our language and most building or home automation systems. With drivers for many popular systems, and easy programming tools, clients can easily drive QMotion ${ }^{\circledR}$ Automated shades with their new or existing control systems.

- RS-232 serial
- RS-485 serial
- Dry contact interface
- 15 channel
- 9 v DC power supply or power over CAT 5
- Desk or wall mountable
- 4,000 foot wiring range
- Normal remote range: 50 feet


## QMotion® Qrelay

Each installation is different, and environmental factors may have an effect on transmission. In some cases, a Qrelay may be helpful in improving signal reception. To consider in advance, if a room is over 12' $\times 12$ ', or a shade is 30 ' from where it would be controlled, the Qrelay is recommended. As these dimensions increase, the Qrelay will become increasingly helpful, and spaces significantly larger may even benefit from more than one Qrelay.

- Extends range of all QMotion remotes.
- Use as many as required in an installation (no limits)
- Powered from a wall outlet or from a powered USB port
- Two modes of operation "Zone Specific" and "Echo"
-Zone specific mode allows individual remotes to be learned to the repeater
-Echo mode repeats all valid Qmotion remote commands
- Normal remote range: 30 feet



## Qmotion

## QMotion ${ }^{\circledR}$ Qsync

## QMotion ${ }^{\circledR}$ Smartphone Application "App" Features:

- Control Qmotion shades with iOS devices
-Android mobile devices coming soon
- Virtual Shade: Drag your finger to place the shade to the desired positions
- Connects automatically to Wifi* and Bridge. "Plug and Play"
- Channel System to name, take and set reference photo to group shades.
- Step by Step setup for learning, setting lower limit, and deleting shades
- Control nearly 500 shades or groups from each Qsync
- TCP/IP to 433 Mhz bridge
*(Automatic Wifi Connection not available on iOS)


## QMotion ${ }^{\circledR}$ Hembar Activation

QMotion ${ }^{\circledR}$ Shades incorporate patented and unique tug features that allow the shade to open with just a short tug, or be lowered without the remote.

Tug the hembar less than 1"

- Shade opens to next highest preset position (example: shade moves from $75 \%$ to $50 \%$ )
Tug the hembar downward between 1"-2"
- Shade moves to full open

Tug the hembar MORE than approximately 2"

- $\quad$ Shade remains at position stopped until pulled or sent up with a remote
Two successive tugs MORE than approximately 2"
- Shade moves to full open



## Qmotion

## QMotion ${ }^{\oplus}$ Wall Docking Station

For the convenience of the user, consider QMotion ${ }^{\circledR}$ Wall Docking Stations. Available in Single, Double or Triple gang versions, these wall plates are built to install on a wall as a place to retain the transmitters used in a project. Remote controls hold in place on the Docking Station via a strong magnet, and allow the remote controls to be used as a wall switch for a third level of control for the shades. Wall plates are flush mounted and do not require routing a hole in drywall or other mounting wall finishes. For public spaces, or other places where a remote should be "permanently" attached to a wall, our Wall Station Adaptors mount around the remotes, making them virtually impossible to remove without a screwdriver.


Single Wall Station


Multichannel-Single


Double Wall Station


Multichannel-Double



Wall Station Adaptors



## Qmotion



In circumstances where the QMotion® Shades fabric assortment is not similar to a desired material, customers may supply the fabric for the shade, and QMotion® will manufacture the shade using this material. Often this is not using roller shade fabric and performance will vary with the type of finish of the fabric. Please verify with your fabric supplier that the fabric can perform properly on a flat roller shade.

For a nominal fee of $\$ 50$ (non refundable) a dealer can get a COM material qualified. To qualify COM material, the dealer must supply the following information to a QMotion ® Customer Service Representative: 1) Fabric specifications (weight \& thickness) and 2) A 1' $x$ 1' sample material shipped to 3400 Copter Rd, Pensacola, FL 32514. Note: Quotes using a COM material are not valid until qualified and approved by QMotion ${ }^{\circledR}$ engineers. QMotion ${ }^{\circledR}$ reserves the right to decline any COM material that does not meet quality specifications All fabric must be shipped to us in ready to use condition, as we will not inspect for quality. Contact our Customer Care Team for material and testing requirements.


In cases where customers desire a material from a supplier of roller shade fabric. This may be colors of our standard styles which are not stocked, or styles from other major suppliers. Please consult with your Qmotion® Customer Care Representative for information about specific fabrics, including pricing and lead times.

Note that in the case of both C.O.M. and S.O.M., there are extended lead times due to inbound freight and production scheduling.


## Qmotion

## QMotion® Measurement Instructions



Opening Mecasurements

Inside Mount


Standard Roll Direction


Reverse Roll Direction

Outside Mount


Standard Roll Direction


Reverse Roll Direction

## Measure and assess area to be covered:

- Measure opening to be covered vertically and horizontally in three places.
- If vertical measurements vary more than $1 / 2^{\prime \prime \prime}$ we recommend an outside mount.
- If horizontal measurements vary more than $1 / 2^{\prime \prime \prime}$ we recommend an outside mount.
- Measure and compare diagonals to determine if opening is square.
- If corner to corner diagonal measurements vary more than $1 / 2$ " we recommend an outside mount.
- Use a level to determine if opening is plumb and square.
- If out of square or out of plumb by more than $1 / 2^{\prime \prime}$ we recommend an outside mount.


## Measurement rules:

- Make all measurements to the nearest $1 / 16^{\prime \prime}$. On inside mount applications, round down.
- Measure all windows, even if they appear to be the same size.


## Considerations:

- There must be significant support structure to hold the shade, i.e. wood, concrete, anchored drywall, etc.
- For drywall you may use heavy duty auger style drywall anchors rated sufficient for the weight of the shade.
- Standard roll or reverse roll are available. Reverse roll may be needed to free shade path from obstructions, i.e. handles, locks, alarm sensors, molding, trim, etc.


## Qmotion

## QMotion® Measurement Instructions (cont.)

## Required order form measurements for INSIDE MOUNT:

- Use the top horizontal measurement for TOP WIDTH. This is outside of bracket to outside of bracket.
- Use the largest vertical measurement for HEIGHT.
- Measure and record DEPTH. Use the minimum distance from the outside of opening to the window including window mullions if they exist. This is important in determining if the shade and fascia will protrude into the room and out of the opening.

Required order form measurements for OUTSIDE MOUNT:

- Determine FABRIC WIDTH based on largest horizontal measurement PLUS total desired side overlap.
- Minimum 1.5" side overlap is recommended.
- Establish WIDTH dimension by adding 1" to the FABRIC WIDTH. This is outside of bracket to outside of bracket. (Note: Brackets extend beyond FABRIC WIDTH by $1 / 2$ " on each side.) - Determine HEIGHT by adding 3.25 " to largest vertical measurement and desired Sill overlap. Minimum 1" Sill overlap is recommended.





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## QMotion® Automated Shades

Reference Information

## QMotion® Setting Hembar Position

For shades produced prior to April 14th, 2013.

## Lowering the Lower Limit

1. Press and release the DOWN button.
2. Shade moves to preprogrammed lower limit.
3. Press and hold the DOWN button until the shade jogs, release.
4. Tug shade more than 2 " to put shade into learn mode.
5. Manually pull shade down to lower the lower limit.
6. Once desired position is achieved press and hold the DOWN button until the shade begins to travel up then release.
7. The shade will travel to the top and now the lower limit is set. Note: $25 \%, 50 \%$, and $75 \%$ positions will reset automatically

## Raising The Lower Limit

1. Press and release the DOWN button.
2. Shade moves to preprogrammed lower limit.
3. Press and hold the DOWN button until the shade jogs, release.
4. Tug shade more than 2 " to put shade into learn mode.
5. Press and release the UP button, let the shade travel up past previous lower limit, press and release the DOWN button to stop.
6. Manually pull to lower limit.
7. Once desired position is achieved press and hold the DOWN button until the shade begins to travel up then release.
8. The shade will travel to the top and now the lower limit is set.

Note: $25 \%, 50 \%$, and $75 \%$ positions will be set automatically

## Custom Intermediate Positions

## To Set Custom Intermediate Positions HIGHER or LOWER Than Factory Preprogrammed Positions

1. Send shade to intermediate position that you wish to change.
2. Press and hold that INTERMEDIATE button until the shade jogs, release.
3. Tug shade more than 2 " to put into learn mode.
4. Move the shade to the custom position by manually tugging or using the up button.
5. Once desired position is achieved press and hold the INTERMEDIATE button until the shade begins to travel up then release.
6. The shade will travel to the top and now the custom intermediate position is set.

## QMotion ${ }^{\oplus}$ Setting Hembar Position

For shades produced on or after April 15th, 2013.

## Setting Any Position Location

Qmotion shades produced after April 15, 2013 have the additional ability to program the upper stop position. These instructions may be followed the same for each button programming operation, substituting the desired button to be programmed during this process.

1. Send the shade to the position to be changed.
2. Press \& Hold the button desired to be changed after the shade has stopped (ex. if the position to be programmed is the upper limit, press and hold the UP button)
3. After about 5 seconds the shade will Jog down 3 inches and back up.
a. Release the position button to be changed.
b. Tug the shade 6 inches to enter learn mode for the button position.
c. Move the shade to the new position by hand or press the UP button 3 times to send the shade to the TOP, then pull down to the desired position.
d. Press and Hold the position button to be set until the shade begins to move UP.
e. The shade will travel to the "hard stop", the new position has been set. リロロロロロロロロロロロロロロロ

## QMotion® Remote Settings

For shades produced prior to April 14th， 2013.

## Adding an Additional Remote

1．Move the shade to full open．
2．Press and hold the UP button on a learned remote until the shade begins to move，release．
3．Shade will move to the $75 \%$ position．
4．Tug the shade more than 2 ＂to put into learn mode．
5．Press and hold UP button on the new remote until the shade begins to travel up．
6．New remote is learned．

## Deleting A Remote

1．Move the shade to full open．
2．Press and hold the UP button on a learned remote until the shade begins to move，release．
3．Shade will move to the $75 \%$ position．
4．Tug the shade more than 2 inches to put into learn mode．
5．Press and hold DOWN button on the remote or channel to be deleted until the shade begins to travel up．
6．Remote or channel is deleted．

## Full Master Reset Procedure

This procedure clears all original learned remote AND all hembar settings
1．Move the shade to full open．
2．Press and hold the up button on a learned remote until the shade starts moving， do not release until shade reaches the $75 \%$ position and reverses，then release．
3．Shade will stop about 12 inches from the top．
4．Immediately tug shade more than $\mathbf{2}$ inches to delete all learned remotes and limits．
5．Shade will now be in learn mode for $\mathbf{6 0}$ seconds．
6．Learn a new remote by pressing and holding UP button on the remote until the shade begins to move up．Lower limit will now be set to factory default $\mathbf{1 2}$ inches．


For shades produced on or after April 15th, 2013.

## Adding or Deleting a Remote

1. Send the shade to Top/Upper limit.
2. Press \& Hold the UP button after the shade has stopped.
3. After about 5 seconds the shade will jog down 3 inches and back up.

Keep holding the UP button, do not release.
4. After about 10 seconds the shade will start traveling to the $\mathbf{7 5 \%}$ position
a. Release the Up button.
b. After the shade stops at $75 \%$, tug the shade 6 inches. The shade is now in learn mode.
i. To Add a remote Press and Hold the UP button on the desired new remote or channel until the shade begins to move Up.
ii. To Delete a remote Press and Hold the DOWN button on the desired remote or channel to be deleted until the shade begins to move Up.
c. New remote or channel is added or deleted.

## QMotion® Remote Settings

For shades produced on or after April 15th, 2013.

## Factory Reset Then Adding a Remote

1. Send the shade to Top/Upper limit.
2. Press \& Hold the UP button after the shade has stopped.
3. After about 5 seconds the shade will Jog down 3 inches and back up. Keep holding the UP button, do not release.
4. After about $\mathbf{1 0}$ seconds the shade will start traveling to the $\mathbf{7 5 \%}$ position. Keep holding the UP button, do not release.
5. After about 15 seconds the shade will begin to travel to the Default Shade Length. (About 20 inches). Release the UP button.
a. When the shade stops it will be ready to perform a Factory Reset.
b. Tug the shade more than 6 inches within 10 seconds of the shade stopping to perform a Factory Reset.
c. The Factory Reset will, delete all remotes from the shade memory, and reset all programmed positions to Factory Default settings.
d. The shade will be in learn mode for adding new remotes for one minute.
e. Press and Hold the Up Button on a new remote or channel until the shade begins to move Up.
f. If a new remote is not added within one minute, the shade will exit Learn Mode for Remotes and can only be operated through tugs. A new remote can only be added by performing
i. 2 Button Press procedure with a Multichannel remote or USB remote.
ii. Removing and reapplying power to the shade, followed by step e. of this section.

## Qmotion*

## Brackets (Universal Back Mount)

(Automated and Qfree)
2.6 Universal Bracket Back Mount, No Cover

2.6 Universal Bracket Back Mount, Cover

2.6 Universal Bracket Back Mount, No Cover, Reverse


## Qmotion

Brackets (Universal Back Mount)

(Automated and Qfree)

2.6 Universal Bracket Back Mount, With Cover, Reverse

3.3 Universal Bracket Back Mount, No Cover

3.3 Universal Bracket Back Mount, With Cover


## Qmotion

Brackets (Universal Back Mount)

## (Automated and Qfree)

3.3 Universal Bracket Back Mount, No Cover, Reverse

3.3 Universal Bracket Back Mount, With Cover, Reverse


## Qmotion*

Brackets (Universal Top Mount) (Automated and Qfree)
2.6 Universal Bracket Top Mount, No Cover

2.6 Universal Bracket Top Mount, With Cover


## Qmotion*

Brackets (Universal Top Mount) (Automated and Qfree)
3.3 Universal Bracket Top Mount, No Cover

3.3 Universal Bracket Top Mount, With Cover


## Qmotion*

## Dual Brackets

(Automated and Qfree)

### 2.5 Dual Bracket

*Standard roll application only

3.7 Dual Bracket
*Standard roll application only


## Qmotion*

Brackets (2.5)

Universal Bracket


# Qmotion 

Brackets (3.7)


# Qmotion 

Fascia Brackets
(Automated and Qfree)
2.6 Fascia Bracket

3.3 Fascia Bracket

4.3 Fascia Bracket


## Qmotion*

## Cassette



* R.U.D. indicates the maximum likely diameter on the system. Check fabric charts for specific shade diameters.


## Qmotion

## QMotion ${ }^{\circledR}$ Independent Fascia

Standard Fascia


Reverse Fascia


Dual Bracket Fascia


## Qmotion

QMotion ${ }^{\oplus}$ Fascia (2.6")


Reverse Fascia



## Qmotion

QMotion ${ }^{\circledR}$ Fascia (3.3") Standard Fascia


Reverse Fascia


## Qmotion*

QMotion ${ }^{\circledR}$ Fascia (4.3")
Standard Fascia

Reverse Fascia


## Qmotion

Qlink Fascia
Standard Fascia


## Qmotion

## Qbasic Fascia

QB-17 with Independent/Reverse Fascia

## QB-28 with Snap On Fascia



QB-28 with Independent/Reverse Fascia


## Shade Mounting Dimensions

For our various shade choices these drawings can help determine the minimum required space in the window for mounting.
Qbasic QB-17
Qbasic QB-28


* R.U.D. indicates the maximum likely diameter on the system. Check fabric charts for specific shade diameters.


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## RoHS COMPLIANT

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Disposal of Waste Equipment by Users in Private Household in the European Union
This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

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HomeRun Holdings Corporation, (the "Manufacturer") warrants that this Qmotion® window shade product will be free from defects in materials and workmanship for 5 years, beginning from the date first sold to the commercial or residential consumer who has, or intends to, use the product, as evidenced by such consumer's proof of purchase:

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Batteries originally provided with a new product, if any, are produced by a third party and are not warranted by Manufacturer.

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[^0]:    **Consult your local electricity provider or state regulatory agency for their guidelines regarding cable installation. Comply with all building codes, safety regulations and legal standards.

