







Product Line Up



















Hunter Douglas, a worldwide leader in Window Covering Products and a major manufacturer of Architectural and Industrial Products.

Major operational centres are established in Europe, North America, Asia, Latin America, and Australia.

# A history of innovation















1919 Establishment

50mm Venetian Blinds

1963 35mm Venetian Blinds

1970 Roller Shades

1971 Vertical Blinds

1979 25mm Venetian Blinds

1985 Duette















1991 Silhouette





1996 Wood Blinds

1996 Luminette

1999 UltraGlide

2000 LiteRise



2006 Duette Architella



2007 Pirouette



2007 Platinum Technology



2011 EOS 500



2013 Smart Devices



2015 Platinum App



2017 PowerView



Energy efficiency



Enhanced safety systems



Quality



Stylish design

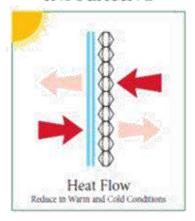
#### **Energy efficiency**



Managing natural daylight, enhancing interior comfort, and reducing energy consumption.

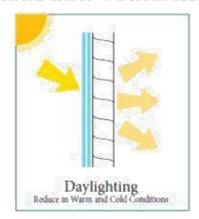
Hunter Douglas products help conserve energy at the window in three significant ways:

#### INSULATING



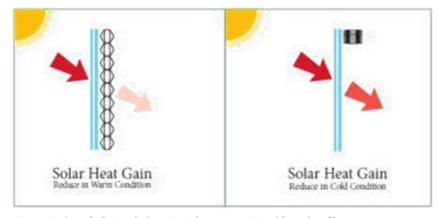
Heat lost in the cold condition and trapped in the warm condition drives your energy usage up.

#### HARNESSING DAYLIGHT



Many of our products reduce the need for artificial lighting by harnessing daylight, diffusing and channeling it deep into a room.

#### USING SOLAR ENERGY



Our window fashions help control sun-generated heat by allowing it into your home during cold condition and minimise the amount that enters during warm condition.

#### **Enhanced safety systems**



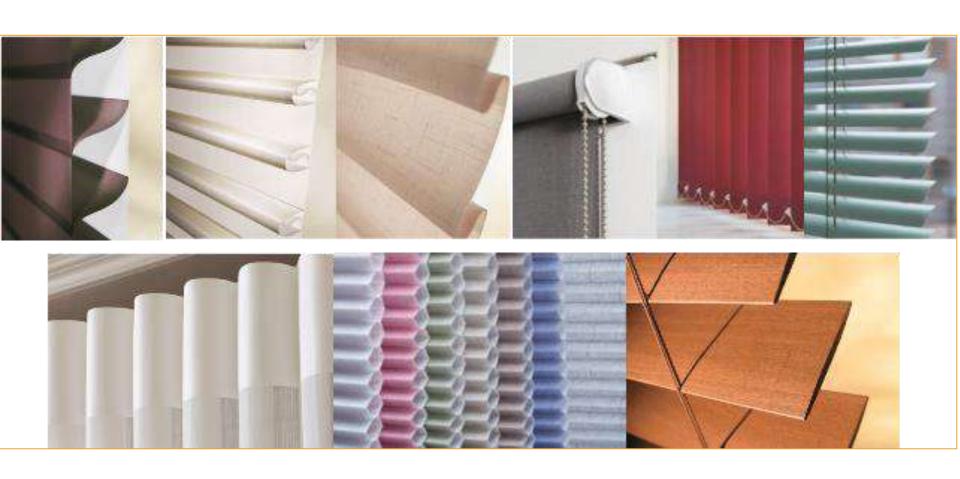
Making window fashions safer for homes with infants and young children has always been a priority at Hunter Douglas





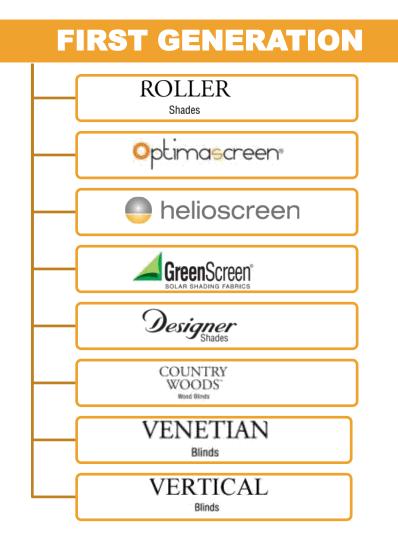
#### Quality

Many of our products hold patents and are exclusive designs. Our window coverings are beautiful product, designed to last



#### **Product Classification**







Privacy Sheers



**Privacy Sheers** 



#### **Luminette® Privacy Sheers**

With a sheer face fabric to let light in; rotate attached soft fabric vanes to keep light out



Privacy Sheers

#### **Features & Benefits**

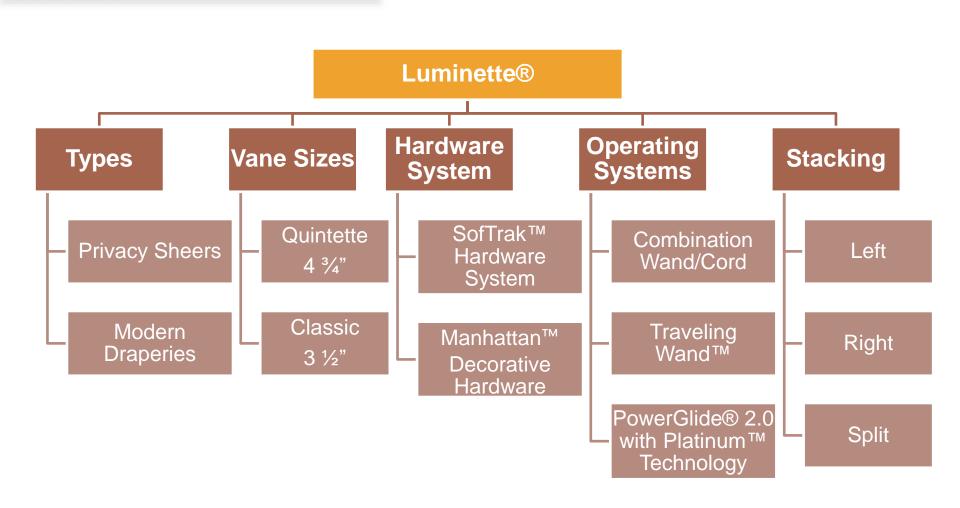


- Luminette Privacy Sheers cover wide expanses up to 192" x 120".
- Versatile Privacy Sheers offer view-through or privacy, and provide protection from harmful ultraviolet rays even with the vanes open.
- Two hardware systems are available: the sleek, concealed rail of the SofTrak™ Hardware System and the bold look of Manhattan™ Decorative Hardware.
- Patented Combination Wand/Cord and Traveling Wand<sup>™</sup> operating systems have no dangling cords for enhanced child safety.
- For convenient and affordable motorisation,
   PowerGlide® 2.0 with Platinum™ Technology offers state-of-the-art remote control operation.



**Privacy Sheers** 

#### **Overview**





**Privacy Sheers** 

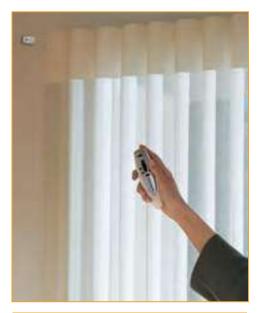
#### **Operating Systems**



Wand/Cord



**Traveling Wand™** 



PowerGlide® 2.0 with Platinum™ Technology





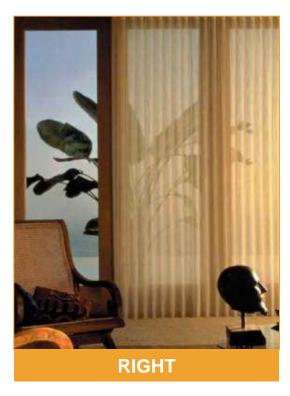




**Privacy Sheers** 

### Stacking









**Privacy Sheers** 





# PIROUETTE®



Window Shadings

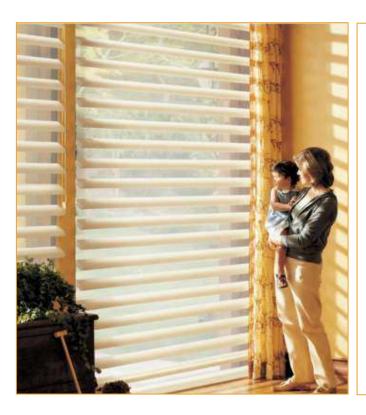


#### **Pirouette® Window Shadings**

With a sheer face fabric to let light in; rotate attached soft fabric vanes to keep light out



#### **Features & Benefits**



- Unique design soft horizontal fabric vanes attached to a single sheer backing allow for enhanced views to the outside and full beauty of the fabric appearance to the inside.
- Innovative operation the revolutionary Invisi-Lift™ system suspends the shading's soft vanes for variable light control.
- Versatile functionality a single operating cord, hand-held Platinum™ remote or wireless wall switch allows shadings to be closed for privacy, adjusted for precise light control and view-through, or completely open by retracting into the headrail.



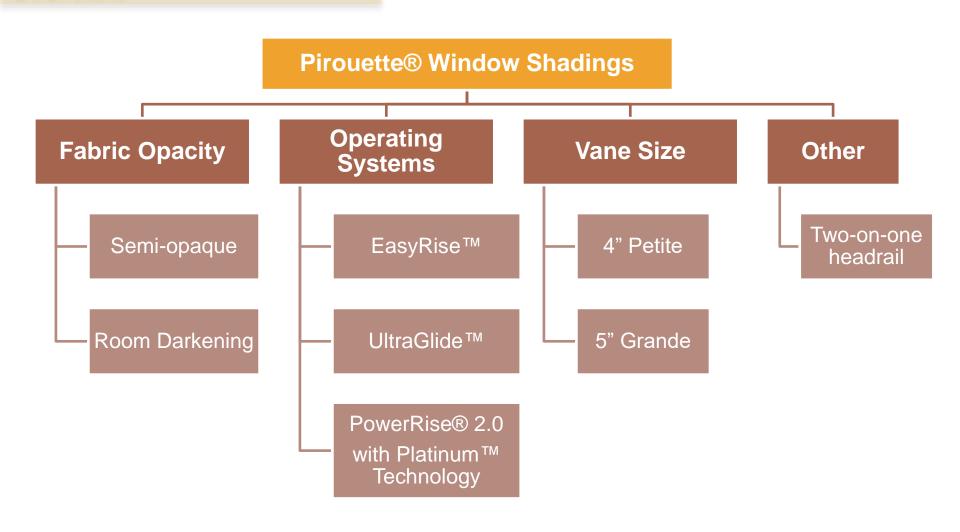
#### **Features & Benefits**



- Ultimate flexibility flatten the vanes for a smooth, more contemporary finish, slightly raise the vanes for a gentle contoured look, or fully open the vanes to provide a clear view to the outside.
- Ultraviolet protection the sheer backing reduces glare and filters harmful UV rays; blocking up to 86% of rays when vanes are open and up to 99% when closed.
- Vane alignment Shadings are custom built to ensure windows of varying heights have consistent vane alignment from window to window when ordered in the same fabric and vane size.



#### **Overview**





### **Fabric Opacity**







Window Shadings

#### **Operating Systems**



EasyRise™



UltraGlide™



PowerRise® 2.0 with Platinum™ Technology















### SILHOUETTE\*



### SILHOUETTE\*

Window Shadings



#### Silhouette® Window Shadings

Signature S-Vane™ transform the look of a room by changing the quality of exterior light



#### **Features & Benefits**

- Unique construction soft fabric vanes are suspended between sheer fabric facings.
- Soft, stylish function vanes tilt for precise, variable light control and privacy.
- **Daytime privacy** two sheer facings obscure the view into the home while still providing a soft, diffused view of the outside.





Transform harsh direct sunlight into soft remarkable beauty whilemaintaining a clear view-through.



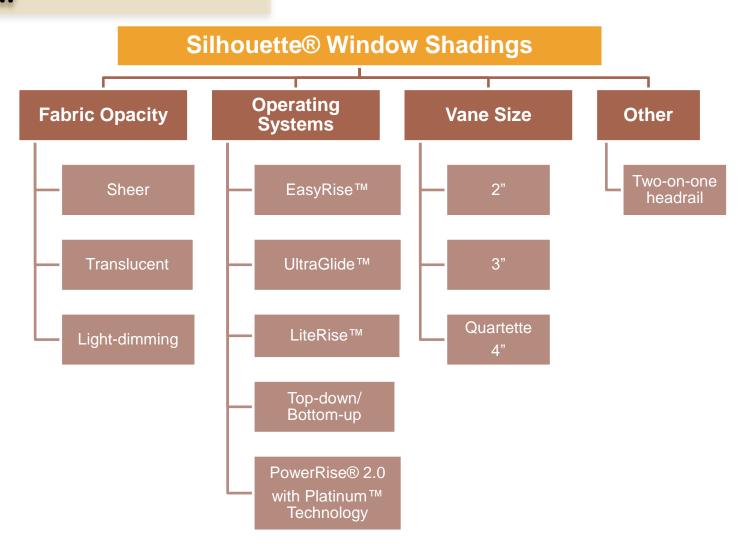
#### **Features & Benefits**



- **UV protection** up to 88% with open vanes, 99% with closed vanes; provides UV protection while maintaining a clear view-through.
- **Uncompromised beauty** no cords run through the fabric to detract from its simple elegance.
- Superior hardware design shading discreetly disappears into the sleek fabric-covered headrail when raised.



#### **Overview**





### **Fabric Opacity**











LIGHT-DIMMING



### SILHOUETTE\*

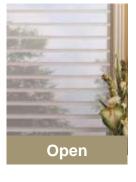
Window Shadings

#### **Operating Systems**

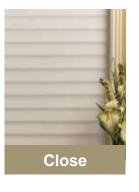










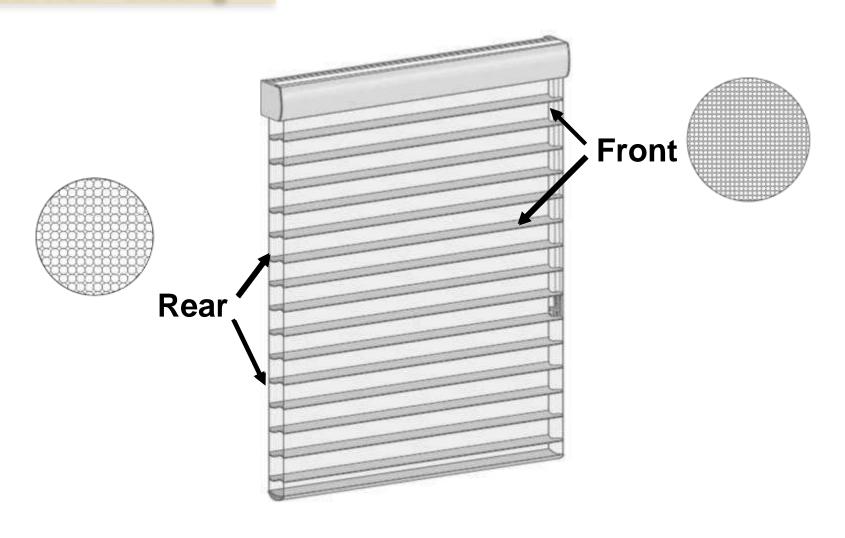








#### **Product view - Shading**





### SILHOUETTE\*





### SILHOUETTE\*









# DUETTE\* Honeycomb Shades





#### **Duette® Honeycomb Shades**

Duette® brand – a whole new category of energy-efficient window fashions





- Honeycomb construction Available in our patented Architella®, and single, double or triple honeycomb construction.
- **Energy efficient** Honeycomb air pockets provide excellent insulation.
- Light control Four opacities for a wide range of privacy and light control options.
- Patented TruePleat<sup>™</sup> construction —
   Keeps every shade crisp and consistent from front to back and top to bottom.





- Easy-care fabrics All fabrics are antistatic, dust- and soil-resistant to maintain their beauty for years to come.
- Compact stacking Minimal height of shade when fully raised allows for uninterrupted views.
- Innovative design options —Top-Down/Bottom-Up and Duolite<sup>™</sup> options
- Specialty shapes Cover virtually any window including arches, quarter circles, circles, angles, trapezoids, hexagons and octagons.



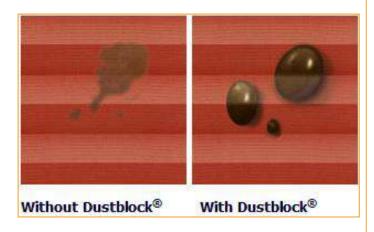


# Duette® is made of imported non-woven fibre fabric and its surface is specially treated

- Fabric is permanently pressed by heat for its consistent and crisp pleats, and is not easily wrinkled or sag to make the product durable and reliable in long period of time.
- 3 unique fabric treatments Topar®,
   Sanaplus™, Dustblock®



#### **Fabric Treatments**

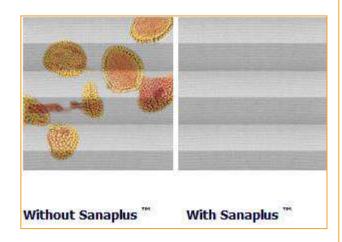


#### **Dustblock®**

- Dirt and Moisture Repellent Finish advantages:
   Resistant to dust and smoke particles
- Resistant to water and oil-based liquids (coffee, wine etc.)
- Protects the fabric and prevents the penetration of dirt into the fibres
- Allows an easier maintenance of the blind to remove dirt
- Longer product life cycle
- The treatment works on both sides of the fabric



#### **Fabric Treatments**

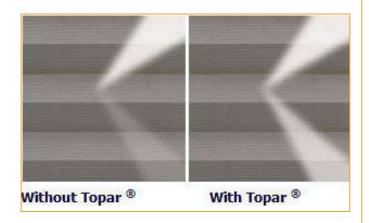


#### Sanaplus <sup>™</sup>

- An antibacterial fabric finish.
- Antibacterial properties in accordance with SN 195920
- Effectively resist the erosion of common bacteria the like of Staphylococcus Aureus and Escherichia coli
- Soft feel
- Washing resistant finish



#### **Fabric Treatments**



#### **Topar®**

- Dust-repellent and washable
- Insensitive to humidity, insect excrements and alkaline detergents
- High solar and light reflection
- Low heat permeability
- Back side of the fabric is always the same colour as front



#### **UV Protection**

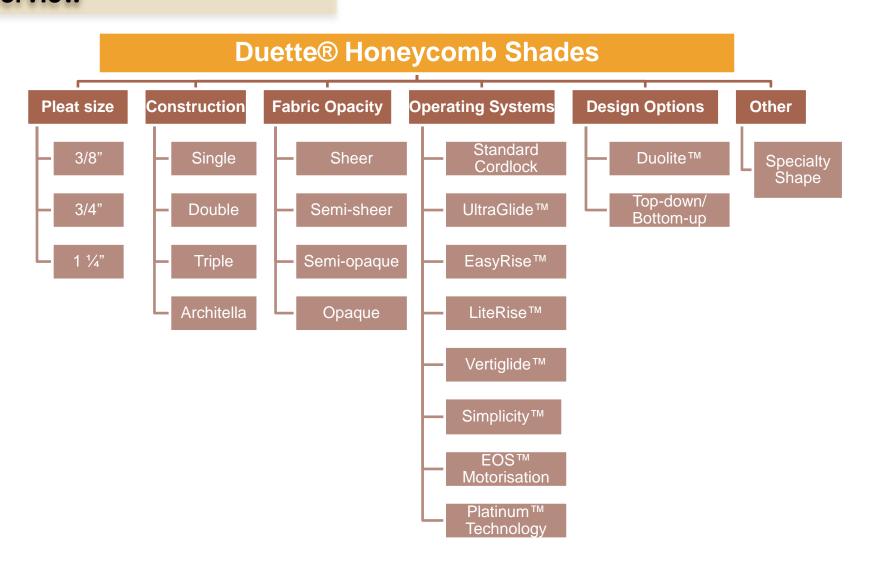
#### Duette® fabric can block up to 98% of harmful ultraviolet rays

- To provide excellent UV protection for furnishings
- To protect the user from harmful UV rays

Duette Model	UV protection filter rate
D2 (3/4" Semi-opaque)	99%
D7 (3/4" Opaque)	100%
G12 (3/8" Semi-opaque)	99%
H7 (3/8" Semi-opaque)	100%
D31 (1 1/4" Semi-opaque)	98%
D32 (1 1/4" Opaque)	100%

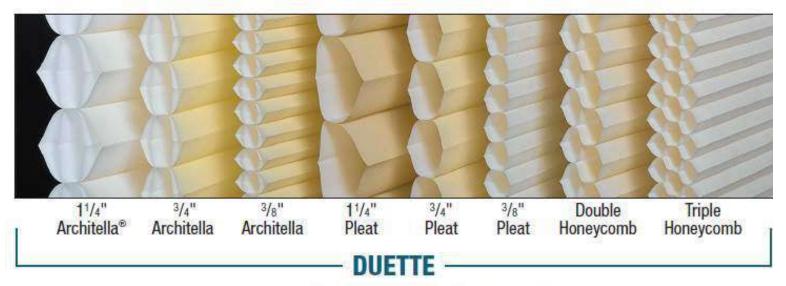


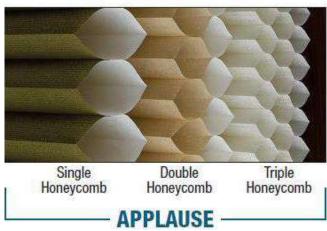
#### **Overview**





#### **Pleat size & Construction**







#### **Fabric opacity**



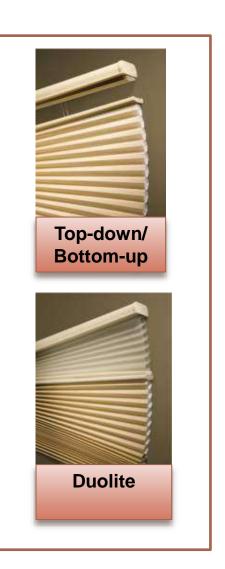
Semi-Sheer\* Semi-Opaque Opaque/Blackout

\*Only available with Duette fabrics.



#### **Operating Systems & Design Options**















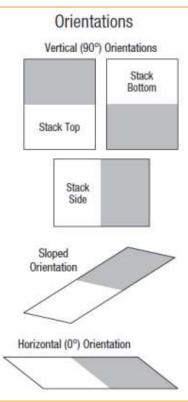




#### **Operating Systems**



**Simplicity** 



- Fits rectangular window openings.
- Operates manually (with handle) on any slope or orientation; ideal for skylights (120" extension pole available).
- Ends of headrail, moving rail and anchor rail are enclosed by side tracks.
- Can be ordered to have fabric stack at top, bottom or either side.
- Available with PowerRise 2.0 with Platinum Technology







#### **Design Options**



**Top-down/ Bottom-up** 

 Provides you the ability to operate window coverings from the top down or the bottom up to meet all your privacy needs while still giving you access to natural light.

#### Duolite™ and Top-down/Bottom-up

- Raise the top window shades first before raising the whole window shades.
- Lower the bottom window shades first before lowering the whole window shades.













Architella® Honeycomb Shades



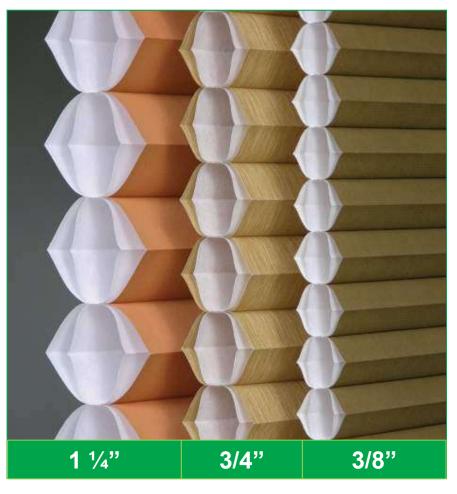
Architella® Honeycomb Shades

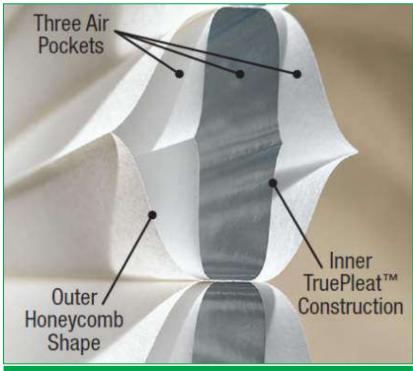




Architella® Honeycomb Shades

#### **Pleat size & Construction**





- Patented honeycomb-within-a-honeycomb construction, with three insulating air pockets formed for superior insulation.
- The inner cell bears the weight of the shade, the outer pleats are always crisp and even.



# DUETTE® Architella® Honeycomb Shades

#### **Features & Benefits**

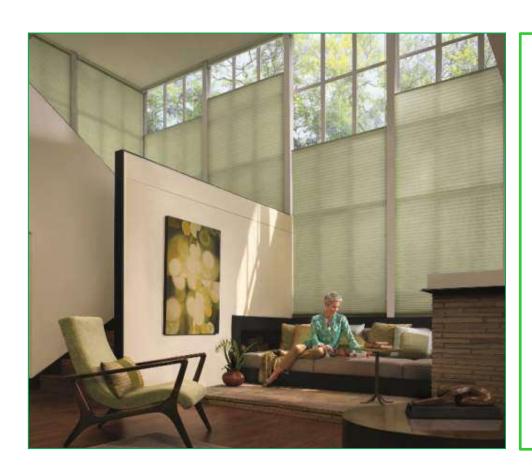


- Patented design, with three insulating air pockets formed for superior insulation between the window and the room.
- Insulation values are especially high with opaque fabrics, which incorporate a metallised Mylar inner cell.
- Translucent fabric offers excellent daylighting benefits of diffusing harsh sunlight, evening the intensity of incoming light and making it softer into the room.
- Smart design colour and texture are preserved in bright sunlight and on opaque fabrics.



#### Architella® Honeycomb Shades

#### **Features & Benefits**



Excellent energy-saving performance of Duette®
Architella was certified by GREENGUARD®
Environmental Institute







Less energy loss with Duette Architella shade (right) compared to bare window (left) as indicated by the infrared photo (centre)



#### Architella® Honeycomb Shades

#### **Hunter Green Initiative**



**3 WAYS TO SAVE ENERGY** 

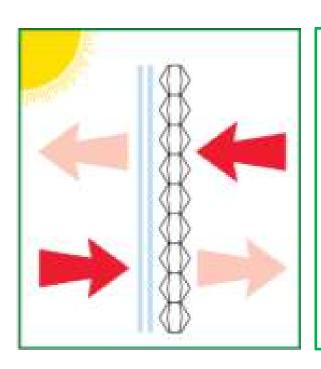
Insulation

Solar heat gain

**Enhance daylighting** 



#### 3 Ways to Save Energy



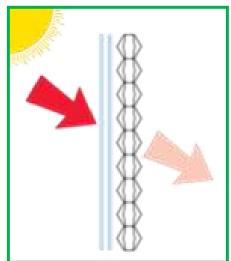
### Insulation

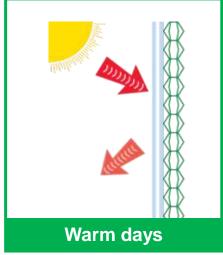
Heat loss and heat gain through windows



#### Architella® Honeycomb Shades

#### 3 Ways to Save Energy





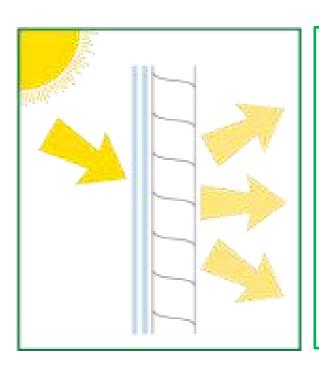


## Solar heat gain

Heat energy from the sun by allowing it in cold days but reducing in warm days



#### 3 Ways to Save Energy



# **Enhance daylighting**

The use of natural light by diffusing and dispersing sunlight deep into a room



# DUETTE® Architella® Honeycomb Shades

#### **Choosing Shades of Green**



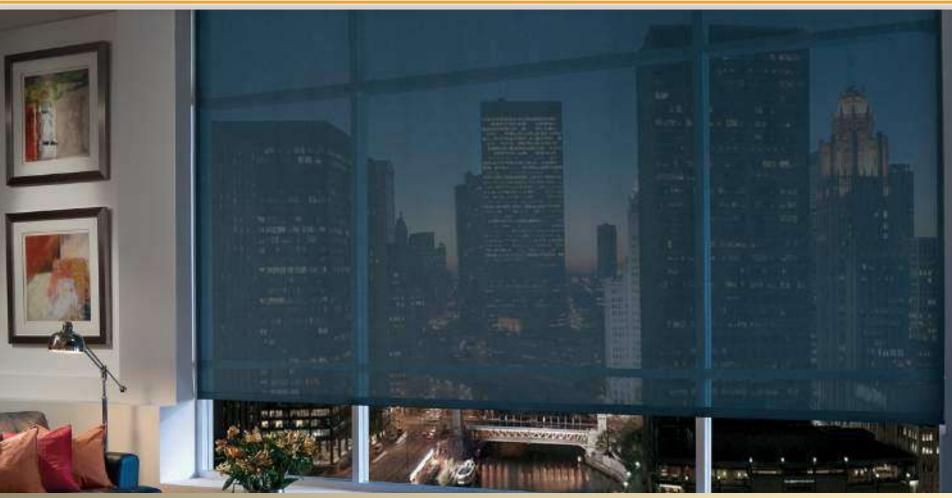


- Insulation Most energy-efficient product:
   Duette® Architella® honeycomb shades.
- Solar Heat Control Our shadings or sheers with vane that open and close controls solar heat gain while adding transforming beauty to room.
- Daylighting Make the most of natural light.
   Silhouette® window shadings provide the best diffusion and softening of harsh sunlight.



### ROLLER

Shades



#### **Designer Shades**

Anything but ordinary: a whole new level of light control and style





#### Light Control

Eliminate glare and regulate the amount of sunlight in rooms. Different openness on fabrics regulates the level of light intensity indoors

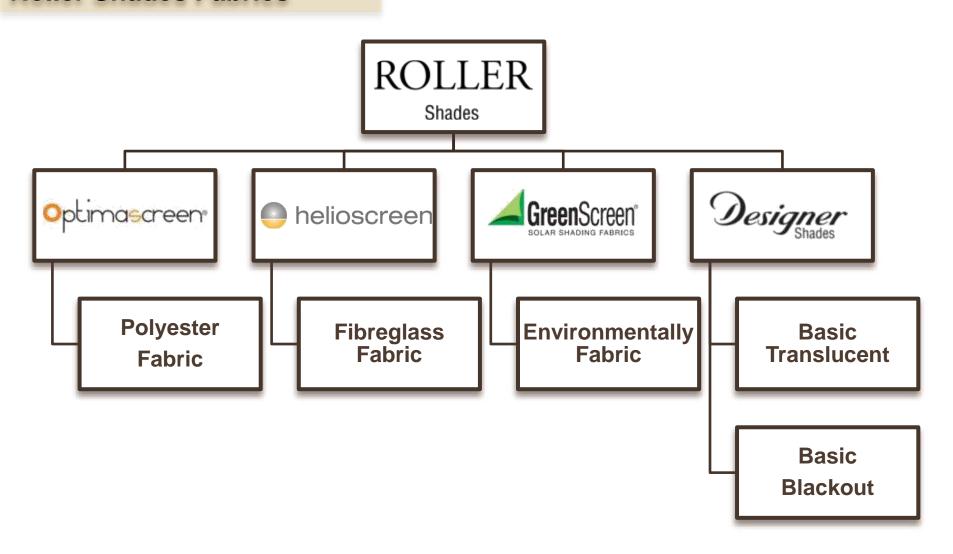
#### Energy Control

Roller Shades optimise total energy performance in a building by reducing the usage of cooling system

 Protection from UV and glare from the sun Blocks out the harmful UV and let in the right amount of light into indoors

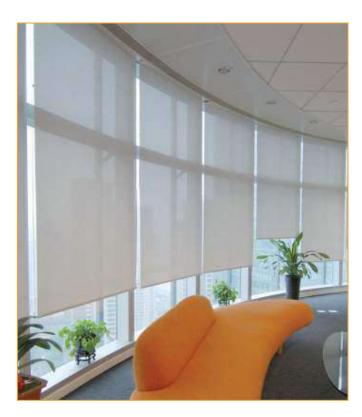


#### **Roller Shades Fabrics**





#### **Roller Shades Fabrics**





#### **POLYESTER FABRIC**

- Offers users more than 50% in energy saving costs, while having an effective thermal comfort indoors
- Allows a full view of the outside and provides visual comfort to the occupants inside
- Preserve indoor air quality with an odourless,
   VOC-free construction and anti-microbial properties



#### **Roller Shades Fabrics**





#### FIBREGLASS FABRIC

- Made of fibreglass strands, making it naturally fireresistant, dimensionally stable and resistant to expansion and stretching from heat
- Offer up to 90% protection from UV and solar heat for a comfortable working environment
- Strong and durable, suitable for usage under harsh weather conditions/temperature
- Weatherproof fabric available for outdoor usage
- Provide excellent view of outdoors while blocking out direct sunlight



#### **Roller Shades Fabrics**





#### **ENVIRONMENTALLY FABRIC**

- Made of PVC-free materials, easily recyclable and environmental-friendly
- Odourless (no VOC emission) for a healthy working surroundings
- Low smoke emission allows occupants to head for safety during emergency
- Perfect for enclosed rooms



### **Roller Shades Fabrics**





#### **BASIC TRANSLUCENT**

- Various options of light filtering fabric
- Allow soft diffused light indoors
- Choices of strong true colours



#### **BASIC BLACKOUT**

- Completely blocks off light and glare from entering rooms
- Offer full privacy indoors



# **Operating Systems**





## **Operating Systems**



EOS™ 500 Roller Blind System

- Beautiful Aesthetics
   Smoothly rounded aluminium brackets, subtle beaded chains and functionally advance fabrics speak of
- Simple Operation
   Ensures a simple, safe and smooth operation

designer grandeur

Easy Installation
 With universal brackets, installation options are
 available for side, top or end mounting, with fuss-free
 adjustments and no need of additional parts.

#### **Technical Features & Winning Points**

- ✓ Heavy-duty systems for windows large and small, with integrated levellers.
- ✓ Unique architectural aesthetic possibilities and strong mounting platform.
- ✓ Coupling technology Easy to connect multiple roller blinds



# **Operating Systems**



**EOS™** Motorisation



- High-powered and efficient
   Operates silently with no glitch when window coverings are raised or lowered
- No strings attached
   Reducing potential safety hazards, it is also offering a more streamlined appearance
- Control Options The SUITE Arc and Step
   SUITE remote uses mesh networking technology to provide
   reliable signal delivery 1 single network of 15 remote controls
   can control up to 240 motors flexible in group channel
   programming features



Wood Blinds



Wood Blinds



# **Country Woods™ Wood Blinds**

As pure and beautiful as light: make a statement with the beauty of real wood



Wood Blinds

#### **Features & Benefits**



# **TopShield II Finishing Process - Extra Steps for Extra Protection**

#### 4. Sealant

Wood is sealed to increase the durability of the wood finish.

#### 5. Protective Coat

Wood is encased in a clear top coat, which provides a protective shield against environmental factors and everyday wear.



Wood Blinds

#### **Features & Benefits**



### **TopShield II Finishing Process -**

- Proprietary to Hunter Douglas and exclusive to Country Woods blinds
- Provides the ultimate protection for wood blinds
  - Fade resistant
  - Scratch resistant
  - Moisture resistant
  - Chemical resistant



Wood Blinds

### **Features & Benefits**

# **Fade Resistant**

Resists ultraviolet sun rays

Hunter Douglas

Control
500 Hrs 1500 Hrs (unexposed to testing) 1500 Hrs 1000 Hrs



Competitor 1



Competitor 2





Wood Blinds

#### **Features & Benefits**

# **Scratch Resistant**

Wood finish is hard and durable

Conducting live nickel tests is proof positive.

**Hunter Douglas** 





#### Competitor's Brand







Wood Blinds

### **Features & Benefits**

# **Chemical Resistant**

Resists common household cleaning solvents:

Lacquer thinner

• 409®

Windex®

Soft Scrub<sup>®</sup>

Acetone





Wood Blinds

#### **Features & Benefits**

# **Moisture Resistant**

Wood finish will not chip or crack when exposed to window condensation or coastal air

Hunter Douglas



Competitor 1



Competitor 2

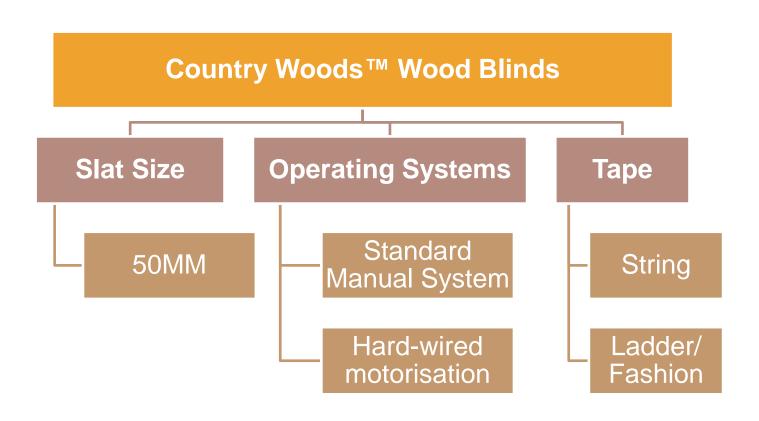


Samples above were exposed for 900 hours in salt spray solution



Wood Blinds

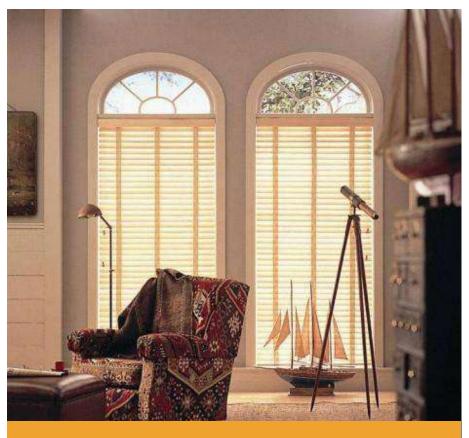
## **Overview**





Wood Blinds

# Tape type



Ladder/Fashion tape

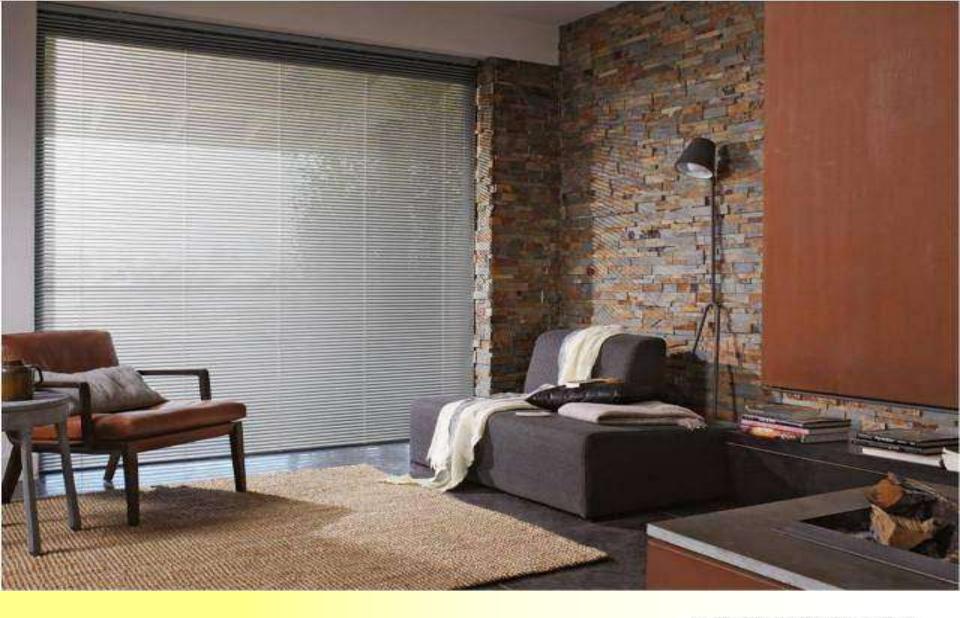


**String tape** 



Wood Blinds





# VENETIAN

Blinds



# VENETIAN

Blinds



#### **Venetian Blinds**

Firstly invented by Hunter Douglas Group in 1946



Functionality

Design

Easy Installation

- Offer easy installation and operation with durable control mechanism
- Systems are developed for optimum daylight and glare regulation with motorisation or manual control
- Available with special shaped windows, turn and tilt, sloped and double window blinds



Functionality

Design

Easy Installation

- Manufactured with the best materials and paint systems in conjunction with automated assembly methods
- Wide range of design possibilities perforated, finishes, colours and colour coordinated components
- Represents the state of art in daylight regulation



Functionality

Design

Easy Installation

- Can be mounted very easily on a wall or on face of the window
- Several other mounting solutions are also available



Functionality

Design

Easy Installation

- Durable slats for long term usage in public areas
- Sleek design optimised to the requirements of indoor usage
- Superior light control in rooms to create a perfect environment for work and leisure
- Wide option of colours and designs easily fit in to any interior space design



Functionality

Design

Easy Installation

- Durable slats for long term usage in public areas
- Sleek design optimised to the requirements of indoor usage
- Superior light control in rooms to create a perfect environment for work and leisure
- Wide option of colours and designs easily fit in to any interior space design

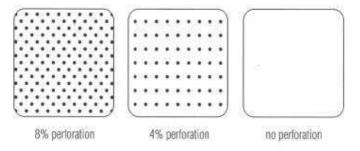


## Features & Benefits – Light Control



#### **Multivision™ Concept**

- Regulates the glare or excess incoming light from a specific oriented façade in various ways
- Different types of perforations will optimise light regulation – maintaining an acceptable level of outside view, and maintaining a uniform colour appearance throughout entire building's façade.





#### Features & Benefits – Heat Control

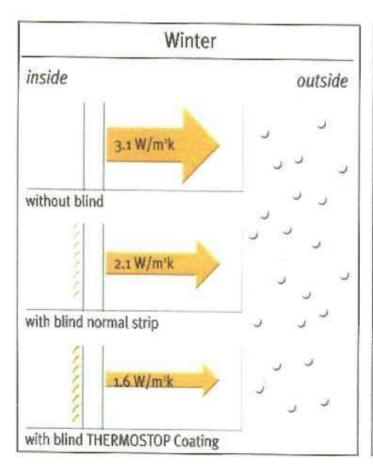


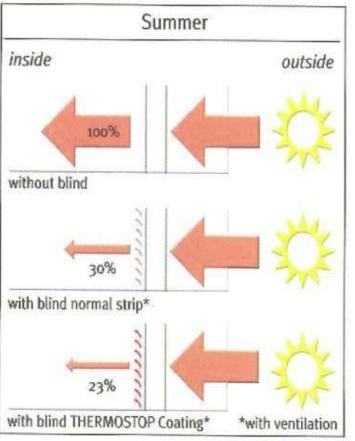
#### **Thermostop®**

- Thermostop strip is based on a slat, which has special coating on the concave side of the strip, giving an emission of heat radiation 3 times lower.
- Emission value for normal painted slat is 90%
  with Thermostop, it is only 30%
- Slatting material increases thermal resistance in cold days and decreases inside heat transfer in warm days

# VENETIAN Blinds

### Features & Benefits - Heat Control







# **Composition of Venetian blinds slat**

Composition	Si	Fe	Cu	Mn	Mg	Cr	Zn	Others	Al
Ratio	1.2	0.7	0.7	0.6	1.2	0.15	1.0	0.2	94.25

**AA6011 Aluminium alloy (U.S. Aluminum Association)** 

Testing standards: ASTM B 209-78

**Physical properties:** 

• Proportion: 2.70g/cm<sup>3</sup>

Melting point: 565~650 °C

Expansion coefficient:
 23.8 x 10<sup>-6</sup> cm/cm <sup>o</sup>C

Elasticity coefficient: Ca 87000 Mpa

Tension: > 330N/mm

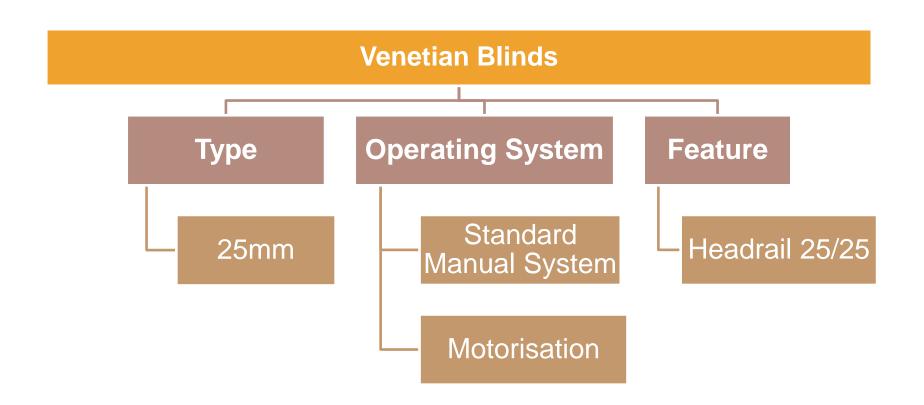
Yield strength: > 320N/mm

• Elongation: > 3%





## **Overview**



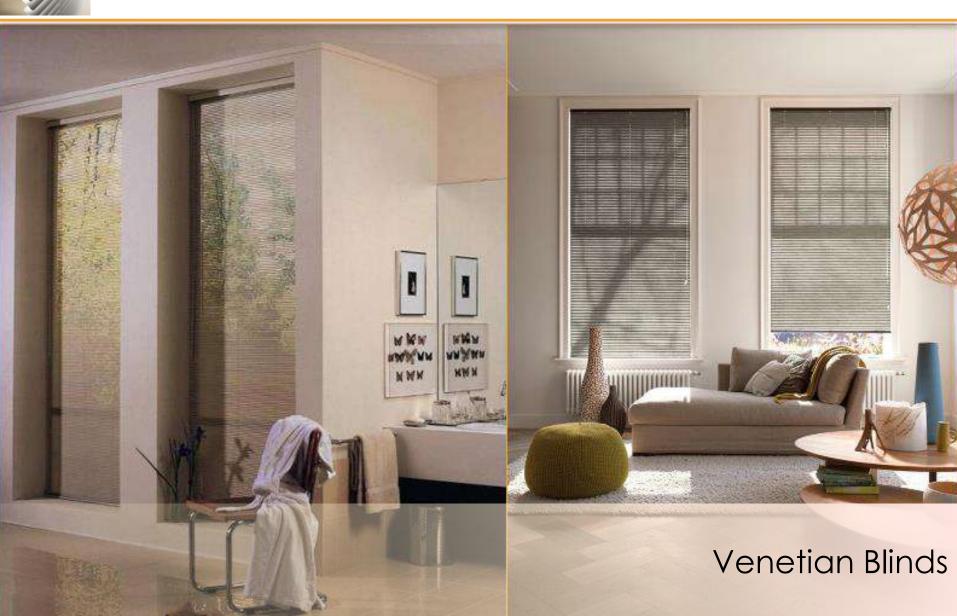


# **Product view**



# VENETIAN

Blinds





# VERTICAL Blinds



# VERTICAL

Blinds



Vertical Blinds
Versatility in Window Solutions



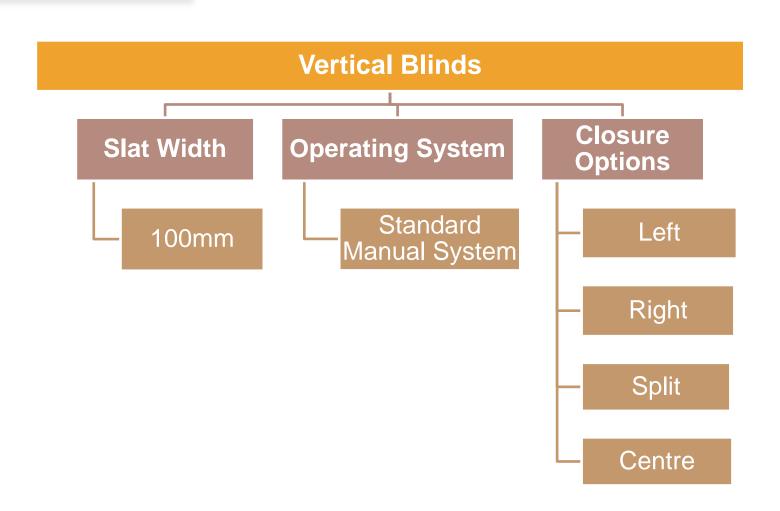


- Patented 'self-alignment' ensures vanes are consistent in positioning and to hang straight and parallel
- Practical and highly durable solution for high and large windows
- Easy operation open, close and tilt as preferred with cord mechanism even on the largest window coverings
- Ensures optimum light and heat control indoors, especially on large windows
- Multiple perforation options combine protection privacy in need of balance approach to privacy and glare control



# VERTICAL

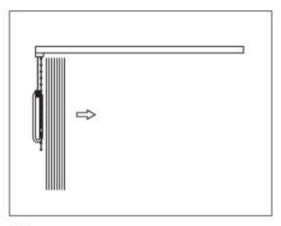
## **Overview**



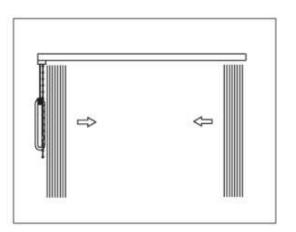


# **Closure Options**

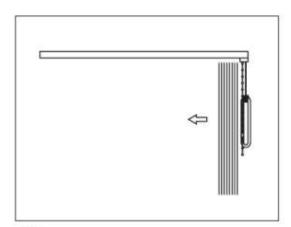
- Can be opened from left to right or vice-versa, towards the middle or from the middle towards the ends of the track
- The operating cord (spreading) and ball chain (tilting) can be:
  - Left/ left
  - Left/ right
  - o Right/ right
  - o Right/ left



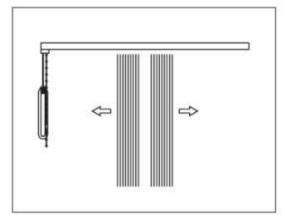
Left



Split



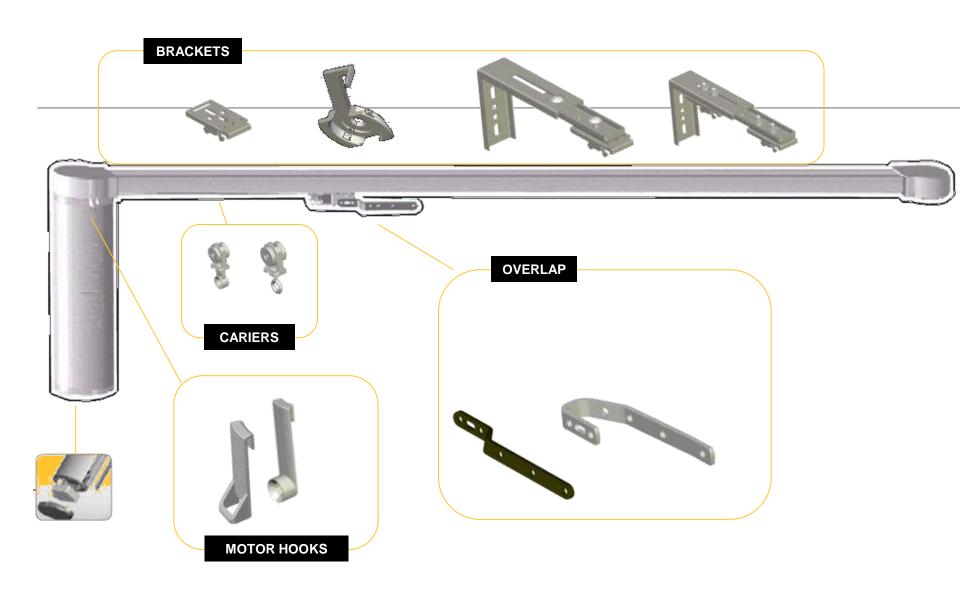
Right



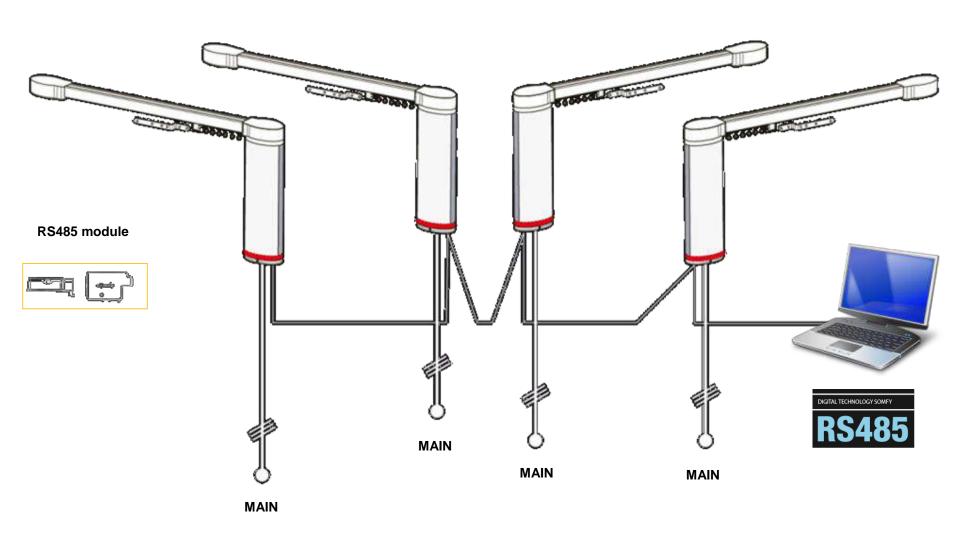
Middle

# Hunter Douglas – Curtain Track System





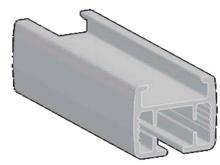
# WIRING EXAMPLES



# Track Profiles:

New track design ensure an easier banding.





Thanks this shape allows us to reach a minimum radius of 3 meters for an arc track and 0.30 meter for a curve track.

4 Motors available in the range.

Two capacity available (35 kg & 60 kg) can be over boosted upto 100 kg via a tandem fitting. Several control posibilities via specific wiring or additional modules.



# Thank You

**Innovative Antares Pvt. Ltd.** 

# <u>Mumbai</u>

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