

# BALI PRODUCTS

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BALI APARTMENT MINI BLINDS .....	2
BALI ARCHITECTURAL 2" WOOD BLINDS .....	6
BALI CLASSICS™ MINI BLINDS .....	10
BALI CUSTOMISER™ MINI BLINDS .....	15
BALI HERITAGE™ 2" ALUMINUM BLINDS .....	20
BALI S3000™ MINI BLINDS .....	25
BALI S4000 MICRO BLINDS .....	30
BALI® SELECTWOOD™ 2" HORIZONTAL BLINDS .....	35

# BALI APARTMENT MINI BLINDS

## PART 1– GENERAL

### 1.01 DESCRIPTION

#### **Related Requirements**

The Conditions of the Contract (General and Supplementary, and other Conditions), and Division 1 General Requirements (if any) are part of this section. (Delete or retain as appropriate.)

### 1.02 QUALITY ASSURANCE

**Job mock-up:** (Describe)

### 1.03 SUBMITTALS

**Manufacturer's Product Data:** Submit manufacturer's descriptive product data and installation instructions for each type of blind specified.

**Shop Drawings:** Submit shop drawings indicating the following:

Field-measured dimensions of openings scheduled to receive blinds.

Illustrations of special accessory components not included in manufacturer's product data.

Details of head and sill conditions, corner conditions, and conditions between adjacent blind units.

**Color Sample:** Submit two 6-inch (0.15m) samples of slat indicating full color range and color variation.

**Product Sample:** Submit one 16-inch wide by 24-inch long fully functional sample blind.

**Maintenance Material (Extra Stock):** (Describe).

## PART 2– PRODUCTS

### 2.01 HORIZONTAL MINI BLINDS

#### **Manufacturer and Product:**

**Manufacturer:** Springs Window Fashions Division, Inc.

**Product:** Bali Apartment Mini Blind.

**Options:** (Describe)

**Color(s):** 112 Alabaster, 205 White Satin.

#### **Product Description:**

**Steel Channel Headrail:** "U"-shaped 1-inch high by 1-inch deep channel, fabricated from 0.024-inch thick (before coating) phosphate treated steel with rolled edges at top and with a coat of vinyl primer and finished coat of polyester baked enamel to match bottomrail and end support brackets and to coordinate with slats. Headrail shall be roll-formed after coating.

**Head Channel Hardware:** Hardware shall be acetal low friction thermoplastic and guide lift cords and ladders in the head channel preventing wear and discoloration. Operating hardware shall be mechanically locked into head channel by means of snap-in fittings with no mechanical cleats visible from underside of headrail.

**Bottomrail:** The bottomrail shall be 0.024-inch thick (before coating) phosphate treated steel with coat of vinyl primer and finished coat of polyester baked enamel matching headrail and coordinating with slat color. Bottomrail shall be roll-formed after coating. Thermoplastic protective caps in bottom of rail shall be used to secure ends of braided ladders and cords and to assure window sill protection. Thermoplastic end plugs shall accept hold-down bracket pins.

**Slats:** Slats shall be aluminum alloyed for maximum strength, flexibility and resistance to corrosion. Slats shall be nominally 1-inch wide, actual 0.991-inch (plus .004-inch or minus .000-inch). Standard thickness is 0.0055". Slats shall have a pre-coating treatment to bond the polyester baked enamel finished coating that features our Advanced Finishing Technology (AFT) providing anti-static performance to help repel dust and a smoother, harder less porous surface. A properly formed contour creates the finished crown with corner radii of 3/16-inch tangent to edge of slat. The end clearance of each slat shall not exceed 1/4-inch from each side of the window opening for jamb installation. For face installation, slats shall overlap jamb by 1 1/2-inches maximum on each end where possible. Slat thickness and ladder support distances shall be such that there is no visible sag.

**Tilt Rod Support:** Tilt rod support shall be acetal low friction thermoplastic and shall support tilt rod. It shall provide a smooth bearing surface and center the ladder drum over ladder hole. Incorporated with tilt rod support shall be a grommet guide to guide lift cord and braided ladder through bottom of headrail. Acetal grommet shall have beveled edges to prevent cord and ladder wear and discoloration.

**Ladder Drum:** Shall be injection molded thermoplastic with smooth channel holes to position the ladder. Ladders will be securely attached to locking channels.

**Cord Lock:** Cord lock shall be of a snap-in design and incorporate a stainless-steel wear guard over which cords pass and a floating shaft-type locking pin. Locking pin shall be free of abrasive teeth and offer minimum wear to cord. Cord lock shall incorporate a "crash-proof" safety feature that shall lock blind automatically upon release of cord. End of lift cords shall be treated with plastic tassels.

**Cord Guide:** Shall be nickel plated steel and will guide and center lift cords into cord lock opening.

**Shaft Type Tilter:** The tilter shall be of a worm and gear arrangement in a totally enclosed gear case (housing). The worm (tilter shaft) shall be of clear polycarbonate, the gear of nylon and the gear housing of acetal thermoplastic. The tilter shall be designed for smooth low friction operation and shall incorporate a clutch mechanism to eliminate damage due to over tilting. Tilter shall be a snap-in component allowing for field removal if required.

**Tilt Wand:** The tilt wand shall be a clear polycarbonate hollow rod, with a hexagonal shape measuring approximately 1/4-inch across the points, providing a positive, comfortable grip. The wand shall hang vertically by its own weight and should be of sufficient length for easy access and operation. Wand shall be attached to the tilter shaft by means of a spring clip and shall be easily detached and reattached in the field.

**Tilt Rod:** The tilt rod shall be electro-zinc coated solid steel, 0.155-inch square in cross-section and shall provide instant tilting response.

**Braided Ladders (Slat Supports):** Blinds shall have braided ladder which will assure proper control with adequate overlap of slats. Distance between end ladder and end of slats will not exceed 7 inches; distance between braided ladders shall not exceed 24 inches.

**Braided Ladder Material:** Material shall be 100% high tenacity polyester yarn. Vertical components shall be not less than 0.045-inch nor greater than 0.066-inch diameter which will provide maximum strength and flexibility with minimum stretch. Horizontal component, or rungs, shall be not less than two threads and shall be approximately 31.0mm long. Ladder will provide 22.5mm of distance between slats. Ladders shall be of sufficient length for bottom of blind to hang with a tolerance of plus one-half/minus zero inches of the specified length. Ladders shall be dyed to Bali color standard.

**Lift Cords:** Bali lift cords shall be braided with polyester jacket and center core or an approved equal construction. Size of cord shall be 1.4mm. Cords shall be detachable, if required, and shall be of sufficient length to properly control the raising or lowering of the blind. Lift cords shall be equipped with plastic tassels. Cord ends shall be securely anchored to the bottomrail and it shall be possible to detach and attach cords. Stringing arrangements shall comply with Bali assembly standards set for the size and weight of the blind. Cords shall be dyed to Bali color standard.

**Cord Lock and Tilter Operation Locations:**

Bali Apartment Blinds shall be made with the following cord lock and tilter operation locations when viewed from within the room:

Tilter at left, cord lock at right (standard).

Cord lock at left, tilter at right (reverse).

Tilter and cord lock at left (both left).

Tilter and cord lock at right (both right).

For blinds 22" and wider, control locations are as follows: Standard and reverse; 5" in from each end. For controls all same side; Tilter 5" in from end and cord lock 3" from end. For blinds 12-21 7/8" wide controls are 2" in from each end and only options 1 and 2 above apply.

**End Support Brackets:** The installation brackets with hinged locking cover shall be treated steel and shall have a coat of vinyl primer with a finished coat of polyester baked enamel in color to match headrail. A pair of these brackets shall support ends of headrail securely. The brackets shall permit easy removal of blind.

**Intermediate Support Brackets:** Brackets shall be furnished for blinds over 48 inches wide. Maximum spacing for intermediate support brackets shall be 48 inches.

**Extension Brackets:** Optional extension brackets are available.

**Hold-Down Brackets:** Optional universal hold-down brackets for sill or jamb installations are available.

**End Stiffeners:**

To add rigidity to the headrail, electroplated steel end stiffeners shall be inserted at each end of the headrail.

To assure a secure installation, to eliminate lateral movement, and to center the blind in the

window, each end stiffener shall have a lateral adjustment tab.

**General:** The blind shall be free of sharp edges, burrs or other defects which might be harmful. When other materials result in improved specifications, they may be adopted.

**Size Limitations:**

Maximum width: 120 inches

Maximum drop: 126 inches

**Color:** Color of headrail, bottomrail, ladder, cord and plastic accessories shall coordinate with slats.

**2.02 FABRICATION**

Prior to fabrication, verify actual opening dimensions by on-site measurement. Calculate blind dimensions to fit within specified tolerances.

Fabricate blinds to fill openings from head to sill and jamb-to-jamb. The minimum clearance blind-to-blind shall be 1/4-inch. Locate blind divisions at mullions.

Fabricate blinds to fill all exterior window openings except at doors, door sidelights and transoms unless noted.

**PART 3 – EXECUTION**

**3.01 INSPECTION**

Verify that the work area in which the blinds will be installed is free of conditions that interfere with blind installations and operations. Begin blind installation only when unsatisfactory conditions have been corrected.

**3.02 INSTALLATION**

Install blinds in accordance with manufacturer's procedures except as otherwise specified herein.

Install intermediate support brackets and extension brackets as needed to prevent deflection in headrail.

Install blinds with adequate clearance to permit smooth operation of blinds and any sash operators. Hold blinds 1/4-inch clear from each side of window opening on inside mount unless other clearance is indicated.

Set tilt and lift controls. Demonstrate blinds to be in smooth, uniform working order.

**3.03 CLEANING**

Clean soiled blind surfaces with a mild soap solution. Do not use steam, hot water, bleach or any abrasive or solvent-based cleaners.

To ensure proper drying, provide adequate ventilation for blinds, remove bottomrail plastic end caps, and tip headrail and bottomrail to drain water.

**3.04 HORIZONTAL MINI BLIND SCHEDULE:**

Provide blinds at the following locations: (listing of blind locations, different options, types, accessories and colors).

# BALI ARCHITECTURAL 2" WOOD BLINDS

## PART 1– GENERAL

### 1.01 DESCRIPTION

#### *Related Requirements*

The Conditions of the Contract (General and Supplementary, and other Conditions), and Division 1 General Requirements (if any) are part of this section. (Delete or retain as appropriate.)

### 1.02 QUALITY ASSURANCE

*Job mock-up:* (Describe)

### 1.03 SUBMITTALS

*Manufacturer's Product Data:* Submit manufacturer's descriptive product data and installation instructions for each type of blind specified.

*Shop Drawings:* Submit shop drawings indicating the following:

Field-measured dimensions of openings scheduled to receive blinds.

Illustrations of special accessory components not included in manufacturer's product data.

Details of head and sill conditions, corner conditions, and conditions between adjacent blind units.

*Color Sample:* Submit two 6-inch (0.15m) samples of material indicating full color range and color variation.

*Product Sample:* Submit one 16-inch wide by 24-inch long fully functional sample blind.

*Maintenance Material (Extra Stock):* (Describe).

## PART 2– PRODUCTS

### 2.01 HORIZONTAL MINI BLINDS

#### *Manufacturer and Product:*

*Manufacturer:* Springs Window Fashions Division, Inc.

*Product:* Bali Architectural 2" Wood Blind.

*Options:* (Describe)

*Color(s):* Selected from Bali color standards.

#### **Product Description:**

**SureClose Headrail:** "U"-shaped 1 1/2" high by 2 1/4" deep channel with a 1/8" lightblocking lip on the bottom centerline, fabricated from 0.022" thick (before coating) phosphate treated steel with rolled edges at top with a prime coat of vinyl primer and finished coat of polyester baked enamel to match

bottomrail and end support brackets and to coordinate with slats. Headrail shall be roll-formed after coating.

Optional valance available.

**Head Channel Hardware:** Metal hardware shall be electroplated with lift cords and ladders guided by acetal low friction thermoplastic grommets in the head channel that prevent wear and discoloration. Operating hardware shall be mechanically locked into head channel by means of snap-in fittings with no mechanical cleats visible from underside of headrail.

**Wooden Bottomrail:** Wood bottomrail, 5/8 high by 2" deep. Bottomrail finished to coordinate with slat colors. Optional hold-down bracket pins are available.

**Slats:** Slats shall be made from North American hardwood and resistance to warping. Slats shall be nominally 2" wide, by 1/8" thick. The end clearance of each slat shall not exceed 1/2" from each side of the window opening for jamb installation. For face installation, slats shall overlap jamb by 1 1/2" maximum on each end where possible. Ladder support distances shall be such that there is no visible sag.

**Tilt Rod Support:** Tilt rod support shall be low friction thermoplastic and shall support tilt rod. It shall provide a smooth bearing surface and center the ladder drum over ladder hole. Incorporated with tilt rod support shall be metallift cord rollers to guide lift cords when entering and exiting headrail for smoother lifting and lowering operation. Grommet shall prevent cord and braided ladder wear and discoloration.

**Ladder Drum:** Ladder drum shall be 0.022 inch thick electroplated steel. The standard braided ladders are attached by a crimp-on sleeve located on the top of the drum. Optional cloth tapes are attached by a locking prong, located on the top of the ladder drum, which secures the tapes to the drum.

**Cord Lock:** Metal cord lock shall be of a snap-in design and incorporate a floating shaft-type locking pin. The freely rotating locking pin shall offer minimum wear to cord. Cord lock shall incorporate a crash-proof safety feature that shall lock blind automatically upon release of cord. End of lift cords shall be treated with wood tassels.

**Shaft Type Tilter:** The tilter shall be of a worm and gear arrangement in a totally enclosed gear case (housing). The worm (tilter shaft) and gear shall be zinc die castings and the gear housing of low friction thermoplastic. Tilter shall be a snap-in component allowing for field removal if required.

**Tilt Wand:** Shall be of wood, finished to coordinate with the slat colors. The wand shall hang vertically by its own weight and should be of sufficient length for easy access and operation. Wand shall be attached to the tilter shaft by means of a spring clip and shall be easily detached and reattached in the field. Wands over 48 inches will be made of clear plastic.

**Cord Tilter:** Snap-in component incorporating a worm and pulley of low friction thermoplastic and a gear of nylon. Tilt cords shall be secured to pulley and treated with tassels at tilt end.

**Square Tilt Rod:** Tilt rod shall be electro-zinc coated solid steel. Tilt rod shall be square in cross-section measuring 1/4" at its widest points. Tilt rod shall limit torsional deflection to 6 degrees in a 30" test length with a torque application of one-foot pound.

**Braided Ladders (Slat Supports):** Braided ladder which will assure proper control with adequate overlap of slats in the closed position. Distance between end ladder and end of slats will not exceed 6"; distance between braided ladders shall not exceed 24 inches.

**Braided Ladder Material:** Material shall be 100% high tenacity polyester yarn. Vertical component of the ladder shall be not less than .045" diameter nor greater than 0.066" diameter, which shall provide maximum strength and flexibility with minimum stretch. Horizontal component, or rungs, shall be not less than two threads and shall be approximately 44.0mm long. Ladders shall be of sufficient length for bottom of blind to hang with a tolerance of plus one-half/minus zero inches of the specified length. Ladders shall be dyed to Bali color standard.

**Cloth Tapes:** (Slat Supports) an optional cloth tape shall be available. Material is 1 1/2" wide polyester/rayon construction. Distance between end tape and end of slats will not exceed 6". Cloth tapes shall be coordinated to Bali color standard.

**Braided Ladder Clip:** Plated metal clip shall be mechanically clinched to the end of each braided ladder to lock in holes of ladder drum.

**Lift Cord:** Lift cord shall be braided with polyester jacket and center core or an approved equal construction. Size of cord shall be 1.8mm. Cords shall be detachable, if required, and shall be of sufficient length to properly control the raising or lowering of the blind. Lift cords shall be equipped with wooden tassels. Cord ends shall be securely anchored to the bottomrail and it shall be possible to detach and attach cords. Cording arrangements shall comply with assembly standards set for the size and weight of the blind. Cords shall be coordinated to Bali color standard.

***Cord Lock and Tilter Operation Locations:***

Bali Wood Blinds shall be made with the following cord lock and tilter location options when viewed from within the room:

Tilter at left, cord lock at right (standard).

Cord lock at left, tilter at right (reverse).

Tilter and cord lock at left (both left).

Tilter and cord lock at right (both right).

On blinds 18 inches wide or less, only options 1 and 2 above apply.

**End Support Brackets:** Universal hinged cover end support brackets of phosphate treated steel with a prime coat of vinyl primer and a finish coat of baked on polyester enamel in color to match headrail. Brackets shall facilitate easy removal of head channel and will include an adjustable tab to eliminate lateral headrail movement.

**Intermediate Support Brackets:** Brackets shall be furnished for blinds over 36" wide. Maximum spacing for intermediate support brackets shall be 36".

**Extension Brackets:** Optional extension brackets are available in 2 7/8" and 4 7/8" sizes.

**Hold-Down Brackets:** Optional universal hold-down brackets for sill or jamb installations are available.

***End Stiffeners:***

To add rigidity to the headrail, thermoplastic end stiffener caps shall be inserted at each end of the headrail.

**General:** The blind shall be free of sharp edges, burrs or other defects which might be harmful. When

other materials result in improved specifications, they may be adopted.

**Color:** Color of headrail, bottomrail, ladder, cord and plastic accessories shall coordinate with slats. Plastic headrail components will be either white or black.

## **2.02 FABRICATION**

Prior to fabrication, verify actual opening dimensions by on-site measurement. Calculate blind dimensions to fit within specified tolerances.

Fabricate blinds to fill openings from head to sill and jamb-to-jamb. The minimum clearance blind-to-blind shall be 1/4-inch. Locate blind divisions at mullions.

Fabricate blinds to fill all exterior window openings except at doors, door sidelights and transoms unless noted.

## **PART 3 – EXECUTION**

### **3.01 INSPECTION**

Verify that the work area in which the blinds will be installed is free of conditions that interfere with blind installations and operations. Begin blind installation only when unsatisfactory conditions have been corrected.

### **3.02 INSTALLATION**

Install blinds in accordance with manufacturer's procedures except as otherwise specified herein.

Install intermediate support brackets and extension brackets as needed to prevent deflection in headrail.

Install blinds with adequate clearance to permit smooth operation of blinds and any sash operators. Hold blinds 1/4-inch clear from each side of window opening on inside mount unless other clearance is indicated.

Set tilt and lift controls. Demonstrate blinds to be in smooth, uniform working order.

### **3.03 CLEANING**

Blinds may be dusted. Gently clean soiled blind surfaces with a mild soap solution. Do not use steam, hot water, bleach or any abrasive or solvent-based cleaners.

### **3.04 HORIZONTAL MINI BLIND SCHEDULE:**

Provide blinds at the following locations: (listing of blind locations, different options, types, accessories and colors).

# BALI CLASSICS™ MINI BLINDS

## PART 1– GENERAL

### 1.01 DESCRIPTION

#### *Related Requirements*

The Conditions of the Contract (General and Supplementary, and other Conditions), and Division 1 General Requirements (if any) are part of this section. (Delete or retain as appropriate.)

### 1.02 QUALITY ASSURANCE

*Job mock-up:* (Describe)

### 1.03 SUBMITTALS

*Manufacturer's Product Data:* Submit manufacturer's descriptive product data and installation instructions for each type of blind specified.

*Shop Drawings:* Submit shop drawings indicating the following:

Field-measured dimensions of openings scheduled to receive blinds.

Illustrations of special accessory components not included in manufacturer's product data.

Details of head and sill conditions, corner conditions, and conditions between adjacent blind units.

*Color Sample:* Submit two 6-inch (0.15m) samples of slat indicating full color range and color variation.

*Product Sample:* Submit one 16-inch wide by 24-inch long fully functional sample blind.

*Maintenance Material (Extra Stock):* (Describe).

## PART 2– PRODUCTS

### 2.01 HORIZONTAL MINI BLINDS

#### *Manufacturer and Product:*

*Manufacturer:* Springs Window Fashions Division, Inc.

*Product:* Bali Classics Custom Mini Blind.

*Options:* (Describe)

*Color(s):* Selected from Bali color standards.

#### **Product Description:**

**Steel Channel Headrail:** "U"-shaped 1-inch high by 1 1/2-inch deep channel, fabricated from 0.024-inch thick (before coating) phosphate treated steel with rolled edges at top and with a coat of vinyl primer and finished coat of polyester baked enamel to match bottomrail and end support brackets and to coordinate with slats. Headrail shall be roll-formed after coating.

**Head Channel Hardware:** Hardware shall be acetal low friction thermoplastic and guide lift cords and ladders in the head channel preventing wear and discoloration. Operating hardware shall be mechanically locked into head channel by means of snap-in fittings with no mechanical cleats visible from underside of headrail.

**Enclosed Metal Bottomrail:** Completely enclosed tubular shape, 0.024-inch thick (before coating) phosphate treated steel with prime coat of vinyl primer and finished coat of polyester baked enamel matching headrail and coordinating with slat color. Bottomrail shall be roll-formed after coating with locking groove to receive dust cover. Thermoplastic protective caps in bottom of rail shall be used to secure ladder ends and assure window sill protection. Hold-down bracket pins shall be available.

**Slats:** Slats shall be aluminum alloyed for maximum strength, flexibility and resistance to corrosion. Slats shall be nominally 1-inch wide, actual 0.991-inch (plus .004-inch or minus .000-inch). Standard thickness is 0.006", optional 0.008" is available. Slats shall have a pre-coating treatment to bond the polyester baked enamel finished coating that features our Advanced Finishing Technology (AFT) providing anti-static performance to help repel dust and a smoother, harder less porous surface. A properly formed contour creates the finished crown with corner radii of 3/16-inch tangent to edge of slat. The end clearance of each slat shall not exceed 1/4-inch from each side of the window opening for jamb installation. For face installation, slats shall overlap jamb by 1 1/2-inches maximum on each end where possible. Slat thickness and ladder support distances shall be such that there is no visible sag.

**Tilt Rod Support:** Tilt rod support shall be acetal low friction thermoplastic and shall support tilt rod. It shall provide a smooth bearing surface and center the ladder drum over ladder hole. Incorporated with tilt rod support shall be a grommet guide to guide lift cord and braided ladder through bottom of headrail. Acetal grommet shall have beveled edges to prevent cord and ladder wear and discoloration.

**Ladder Drum:** Shall be injection molded thermoplastic with smooth channel holes to position the ladder. Ladders will be securely attached by means of a snap down top, eliminating the need for braided ladder clips.

**Cord Lock:** Cord lock shall be of a snap-in design and incorporate a stainless-steel wear guard over which cords pass and a floating shaft-type locking pin. Locking pin shall be free of abrasive teeth and offer minimum wear to cord. Cord lock shall incorporate a "crash-proof" safety feature that shall lock blind automatically upon release of cord. End of lift cords shall be treated with plastic tassels.

**Cord Guide:** Cord guide shall be nickel plated steel and will guide and center lift cords into cord lock opening.

**Ring Pull:** An optional lift cord pull ring is available in lieu of cord tassels and shall be supplied with a standard 4-inch control length.

**Top-Locking Cord Lock:** An optional top-locking cord lock shall be available which provides for locking the blind in the fully raised position only with no intermediate locking positions other than fully lowered. The crash-proof feature is not available with a top-locking cord lock.

**Shaft Type Tilter:** The tilter shall be of a worm and gear arrangement in a totally enclosed gear case (housing). The worm (tilter shaft) shall be of clear polycarbonate; the gear of nylon and the gear housing of acetal thermoplastic. The tilter shall be designed for smooth low friction operation and shall incorporate a clutch mechanism to eliminate damage due to over tilting. Tilter shall be a snap-in component allowing for field removal if required.

**Tilt Wand:** The tilt wand shall be a clear polycarbonate hollow rod, with a hexagonal shape

measuring approximately 1/4-inch across the points, providing a positive, comfortable grip. The wand shall hang vertically by its own weight and should be of sufficient length for easy access and operation. Wand shall be attached to the tilter shaft by means of a spring clip and shall be easily detached and reattached in the field.

**Tilt Ring:** An optional tilt ring shall be attached to the tilter shaft in lieu of a wand via the tilter shaft link with field provision of a pole-hook for operation.

**Tilt Limiter:** An optional single-range tilt limiter shall allow a select range of slat tilting operation including a fixed angle if so specified.

**Cord Type Tilter:** The tilter shall be a direct drive system. The direct drive system will utilize a hex tilt rod ladder drum in place of the shaft type tilter with tilt cords attached to the ladder drum by means of braided ladder clips. The tilt cords shall be equipped with plastic tassels. The tilter shall be designed for smooth operation and shall hold the slats at any angle.

**Hexagonal Tilt Rod:** The tilt rod shall be electro-zinc coated solid steel. Tilt rod shall be hexagonal in cross-section measuring 1/4-inch at its widest points. Tilt rod shall limit torsional deflection to 6 degrees in a 30-inch test length with a torque application of one-foot pound.

**Braided Ladders (Slat Supports):** Bali Classics shall have braided ladder which will assure proper control with adequate overlap of slats in the closed position. Distance between end ladder and end of slats will not exceed 6 inches; distance between braided ladders shall not exceed 23 inches.

**Braided Ladder Material:** Material shall be 100% high tenacity polyester yarn. Vertical components shall be not less than 0.045-inch nor greater than 0.066-inch diameter which will provide maximum strength and flexibility with minimum stretch. Horizontal component, or rungs, shall be not less than two threads and shall be approximately 31.0mm long. Ladders shall be of sufficient length for bottom of blind to hang with a tolerance of plus one-half/minus zero inches of the specified length. Standard ladder will provide 21.5mm of distance between the slats. Optional 20mm and 22.5mm spacing is available. Ladders shall be dyed to Bali color standard.

**Lift Cords:** Lift cords shall be braided with polyester jacket and center core or an approved equal construction. Size of cord shall be 1.4mm. Cords shall be detachable, if required, and shall be of sufficient length to properly control the raising or lowering of the blind. Lift cords shall be equipped with plastic tassels, or optional ring pull with a 4-inch cord. Cord ends shall be securely anchored to the bottomrail and it shall be possible to detach and attach cords. Cording arrangements shall comply with assembly standards set for the size and weight of the blind. Cords shall be dyed to color standard.

**Cord Lock and Tilter Operation Locations:**

Bali Classics shall be made with the following cord lock and tilter operation locations when viewed from within the room:

Tilter at left, cord lock at right (standard).

Cord lock at left, tilter at right (reverse).

Tilter and cord lock at left (both left).

Tilter and cord lock at right (both right).

On blinds less than 20 7/8 inches wide, only options 1 and 2 above apply.

**End Support Brackets:** Standard hinged cover end support brackets of phosphate treated steel with prime coat of vinyl primer and finished coat of polyester baked enamel in color to match headrail. Brackets shall be marked left and right to facilitate installation and shall have 1 1/4-inch extra wide top to accommodate power screwdriver. Brackets shall facilitate easy removal of head channel. Optional headrail reveal brackets for recessed pocket installation shall be electroplated. Optional turn clip pivot brackets shall be provided for mounting headrail of blind within extruded aluminum blind pockets.

**Intermediate Support Brackets:** Brackets shall be furnished for blinds over 60 inches wide. Maximum spacing for intermediate support brackets shall be 48 inches.

**Extension Brackets:** Optional extension brackets are available.

**Hold-Down Brackets:** Optional universal hold-down brackets for sill or jamb installations are available.

**End Stiffeners:**

To add rigidity to the headrail, electroplated steel end stiffeners shall be inserted at each end of the headrail.

To eliminate lateral movement and to center the blind in the window, each end stiffener shall have a lateral adjustment tab.

**Accent Channels:** Optional side channels and bottom channels are available in any solid slat color, except Aluminum Texture and Brushed Aluminum.

**General:** The blind shall be free of sharp edges, burrs or other defects which might be harmful. When other materials result in improved specifications, they may be adopted.

**Size Limitations:**

Maximum width: 143 3/4 inches (single blind on one headrail). Blinds up to 192 inches are available as two blinds on one headrail.

Maximum drop: Standard drop 126 inches; 240 inches with Engineering approval.

**Color:** Color of headrail, bottomrail, ladder, cord and plastic accessories shall coordinate with slats.

## 2.02 FABRICATION

Prior to fabrication, verify actual opening dimensions by on-site measurement. Calculate blind dimensions to fit within specified tolerances.

Fabricate blinds to fill openings from head to sill and jamb-to-jamb. The minimum clearance blind-to-blind shall be 1/4-inch. Locate blind divisions at mullions.

Fabricate blinds to fill all exterior window openings except at doors, door sidelights and transoms unless noted.

## PART 3 – EXECUTION

### 3.01 INSPECTION

Verify that the work area in which the blinds will be installed is free of conditions that interfere with blind installations

and operations. Begin blind installation only when unsatisfactory conditions have been corrected.

### **3.02 INSTALLATION**

Install blinds in accordance with manufacturer's procedures except as otherwise specified herein.

Install intermediate support brackets and extension brackets as needed to prevent deflection in headrail.

Install blinds with adequate clearance to permit smooth operation of blinds and any sash operators. Hold blinds 1/4-inch clear from each side of window opening on inside mount unless other clearance is indicated.

Set tilt and lift controls. Demonstrate blinds to be in smooth, uniform working order.

### **3.03 CLEANING**

Clean soiled blind surfaces with a mild soap solution. Do not use steam, hot water, bleach or any abrasive or solvent-based cleaners. Do not wash metallic colors.

To ensure proper drying, provide adequate ventilation for blinds, remove bottomrail plastic end caps, and tip headrail and bottomrail to drain water.

### **3.04 HORIZONTAL MINI BLIND SCHEDULE:**

Provide blinds at the following locations: (listing of blind locations, different options, types, accessories and colors).

# BALI CUSTOMISER™ MINI BLINDS

## PART 1– GENERAL

### 1.01 DESCRIPTION

#### *Related Requirements*

The Conditions of the Contract (General and Supplementary, and other Conditions), and Division 1 General Requirements (if any) are part of this section. (Delete or retain as appropriate.)

### 1.02 QUALITY ASSURANCE

*Job mock-up:* (Describe)

### 1.03 SUBMITTALS

*Manufacturer's Product Data:* Submit manufacturer's descriptive product data and installation instructions for each type of blind specified.

*Shop Drawings:* Submit shop drawings indicating the following:

Field-measured dimensions of openings scheduled to receive blinds.

Illustrations of special accessory components not included in manufacturer's product data.

Details of head and sill conditions, corner conditions, and conditions between adjacent blind units.

*Color Sample:* Submit two 6-inch (0.15m) samples of slat indicating full color range and color variation.

*Product Sample:* Submit one 16-inch wide by 24-inch long fully functional sample blind.

*Maintenance Material (Extra Stock):* (Describe).

## PART 2– PRODUCTS

### 2.01 HORIZONTAL MINI BLINDS

#### *Manufacturer and Product:*

*Manufacturer:* Springs Window Fashions Division, Inc.

*Product:* Bali CustoMiser Mini Blind.

*Options:* (Describe)

*Color(s):* Selected from Bali color standards.

#### **Product Description:**

**Steel Channel Headrail:** "U"-shaped 1-inch high by 1-inch" deep channel, fabricated from 0.024-inch thick (before coating) phosphate treated steel with rolled edges at top and with a coat of vinyl primer and finished coat of polyester baked enamel to match bottomrail and end support brackets and to coordinate with slats. Headrail shall be roll-formed after coating.

**Head Channel Hardware:** Hardware shall be acetal low friction thermoplastic and guide lift cords and ladders in the head channel preventing wear and discoloration. Operating hardware shall be mechanically locked into head channel by means of snap-in fittings with no mechanical cleats visible from underside of headrail.

**Bottomrail:** The bottomrail shall be 0.024-inch thick (before coating) phosphate treated steel with coat of vinyl primer and finished coat of polyester baked enamel matching headrail and coordinating with slat color. Bottomrail shall be roll-formed after coating. Thermoplastic protective caps in bottom of rail shall be used to secure ends of braided ladders and cords and to assure window sill protection. Thermoplastic end plugs shall accept hold-down bracket pins.

**Slats:** Slats shall be aluminum alloyed for maximum strength, flexibility and resistance to corrosion. Slats shall be nominally 1-inch wide, actual 0.991-inch (plus .004-inch or minus .000-inch). Standard thickness is 0.006", optional 0.008" is available. Slats shall have a pre-coating treatment to bond the polyester baked enamel finished coating that features our Advanced Finishing Technology (AFT) providing anti-static performance to help repel dust and a smoother, harder less porous surface. A properly formed contour creates the finished crown with corner radii of 3/16-inch tangent to edge of slat. The end clearance of each slat shall not exceed 1/4-inch from each side of the window opening for jamb installation. For face installation, slats shall overlap jamb by 1 1/2-inches maximum on each end where possible. Slat thickness and ladder support distances shall be such that there is no visible sag.

**Tilt Rod Support:** Tilt rod support shall be acetal low friction thermoplastic and shall support tilt rod. It shall provide a smooth bearing surface and center the ladder drum over ladder hole. Incorporated with tilt rod support shall be a grommet guide to guide lift cord and braided ladder through bottom of headrail. Acetal grommet shall have beveled edges to prevent cord and ladder wear and discoloration.

**Ladder Drum:** Shall be injection molded thermoplastic with smooth channel holes to position the ladder. Ladders will be securely attached to locking channels.

**Cord Lock:** Cord lock shall be of a snap-in design and incorporate a stainless-steel wear guard over which cords pass and a floating shaft-type locking pin. Locking pin shall be free of abrasive teeth and offer minimum wear to cord. Cord lock shall incorporate a "crash-proof" safety feature that shall lock blind automatically upon release of cord. End of lift cords shall be treated with plastic tassels.

**Cord Guide:** Shall be nickel plated steel and will guide and center lift cords into cord lock opening.

**Ring Pull:** An optional lift cord pull ring is available in lieu of cord tassels and shall be supplied with a standard 4-inch control length.

**Top-Locking Cord Lock:** An optional top-locking cord lock shall be available which provides for locking the blind in the fully raised position only with no intermediate locking positions other than fully lowered. The crash-proof feature is not available with a top-locking cord lock.

**Shaft Type Tilter:** The tilter shall be of a worm and gear arrangement in a totally enclosed gear case (housing). The worm (tilter shaft) shall be of clear polycarbonate; the gear of nylon and the gear housing of acetal thermoplastic. The tilter shall be designed for smooth low friction operation and shall incorporate a clutch mechanism to eliminate damage due to over tilting. Tilter shall be a snap-in component allowing for field removal if required.

**Tilt Wand:** The tilt wand shall be a clear polycarbonate hollow rod, with a hexagonal shape measuring approximately 1/4-inch across the points, providing a positive, comfortable grip.

The wand shall hang vertically by its own weight and should be of sufficient length for easy access and operation. Wand shall be attached to the tilter shaft by means of a spring clip and shall be easily detached and reattached in the field.

**Tilt Ring:** An optional tilt ring shall be attached to the tilter shaft in lieu of a wand via the tilter shaft link with field provision of a pole-hook for operation.

**Tilt Limiter:** An optional single-range tilt limiter shall allow a select range of slat tilting operation including a fixed angle if so specified.

**Tilt Rod:** The tilt rod shall be electro-zinc coated solid steel, 0.155-inch square in cross section and shall provide instant tilting response.

**Braided Ladders (Slat Supports):** Blinds shall have braided ladder which will assure proper control with adequate overlap of slats. Distance between end ladder and end of slats will not exceed 6 inches; distance between braided ladders shall not exceed 24 inches.

**Braided Ladder Material:** Material shall be 100% high tenacity polyester yarn. Vertical components shall be not less than 0.045-inch nor greater than 0.066-inch diameter which will provide maximum strength and flexibility with minimum stretch. Horizontal component, or rungs, shall be not less than two threads and shall be approximately 31.0mm long. Standard ladder will provide 22.5mm of distance between slats. Optional 20 and 21.5mm spacing is available. Ladders shall be of sufficient length for bottom of blind to hang with a tolerance of plus one-half/minus zero inches of the specified length. Ladders shall be dyed to Bali color standard.

**Lift Cords:** Bali lift cords shall be braided with polyester jacket and center core or an approved equal construction. Size of cord shall be 1.4mm. Cords shall be detachable, if required, and shall be of sufficient length to properly control the raising or lowering of the blind. Lift cords shall be equipped with plastic tassels. Cord ends shall be securely anchored to the bottomrail and it shall be possible to detach and attach cords. Stringing arrangements shall comply with Bali assembly standards set for the size and weight of the blind. Cords shall be dyed to Bali color standard.

**Cord Lock and Tilter Operation Locations:**

Bali CustoMiser Blinds shall be made with the following cord lock and tilter operation locations when viewed from within the room:

Tilter at left, cord lock at right (standard).

Cord lock at left, tilter at right (reverse).

Tilter and cord lock at left (both left).

Tilter and cord lock at right (both right).

On blinds less than 20 7/8 inches wide, only options 1 and 2 above apply.

**End Support Brackets:** The installation brackets with hinged locking cover shall be treated steel and shall have a coat of vinyl primer with a finished coat of polyester baked enamel in color to match headrail. A pair of these brackets shall support ends of headrail securely. The brackets shall permit easy removal of blind.

**Intermediate Support Brackets:** Brackets shall be furnished for blinds over 48 inches wide. Maximum

spacing for intermediate support brackets shall be 48 inches.

**Extension Brackets:** Optional Extension brackets are available.

**Hold-Down Brackets:** Optional universal hold-down brackets for sill or jamb installations are available.

**End Stiffeners:**

To add rigidity to the headrail, electroplated steel end stiffeners shall be inserted at each end of the headrail.

To assure a secure installation, to eliminate lateral movement, and to center the blind in the window, each end stiffener shall have a lateral adjustment tab.

**General:** The blind shall be free of sharp edges, burrs or other defects which might be harmful. When other materials result in improved specifications, they may be adopted.

**Size Limitations:**

Maximum width: 120 inches

Maximum drop: 126 inches

**Color:** Color of headrail, bottomrail, ladder, cord and plastic accessories shall coordinate with slats.

## **2.02 FABRICATION**

Prior to fabrication, verify actual opening dimensions by on-site measurement. Calculate blind dimensions to fit within specified tolerances.

Fabricate blinds to fill openings from head to sill and jamb-to-jamb. The minimum clearance blind-to-blind shall be 1/4-inch. Locate blind divisions at mullions.

Fabricate blinds to fill all exterior window openings except at doors, door sidelights and transoms unless noted.

## **PART 3 – EXECUTION**

### **3.01 INSPECTION**

Verify that the work area in which the blinds will be installed is free of conditions that interfere with blind installations and operations. Begin blind installation only when unsatisfactory conditions have been corrected.

### **3.02 INSTALLATION**

Install blinds in accordance with manufacturer's procedures except as otherwise specified herein.

Install intermediate support brackets and extension brackets as needed to prevent deflection in headrail.

Install blinds with adequate clearance to permit smooth operation of blinds and any sash operators. Hold blinds 1/4-inch clear from each side of window opening on inside mount unless other clearance is indicated.

Set tilt and lift controls. Demonstrate blinds to be in smooth, uniform working order.

### **3.03 CLEANING**

Clean soiled blind surfaces with a mild soap solution. Do not use steam, hot water, bleach or any abrasive or

solvent-based cleaners. Do not wash metallic colors.

To ensure proper drying, provide adequate ventilation for blinds, remove bottomrail plastic end caps, and tip headrail and bottomrail to drain water.

**3.04 HORIZONTAL MINI BLIND SCHEDULE:**

Provide blinds at the following locations: (listing of blind locations, different options, types, accessories and colors).

# BALI HERITAGE™ 2" ALUMINUM BLINDS

## PART 1– GENERAL

### 1.01 DESCRIPTION

#### *Related Requirements*

The Conditions of the Contract (General and Supplementary, and other Conditions), and Division 1 General Requirements (if any) are part of this section. (Delete or retain as appropriate.)

### 1.02 QUALITY ASSURANCE

*Job mock-up:* (Describe)

### 1.03 SUBMITTALS

**Manufacturer's Product Data:** Submit manufacturer's descriptive product data and installation instructions for each type of blind specified.

**Shop Drawings:** Submit shop drawings indicating the following:

Field-measured dimensions of openings scheduled to receive blinds.

Illustrations of special accessory components not included in manufacturer's product data.

Details of head and sill conditions, corner conditions, and conditions between adjacent blind units.

**Color Sample:** Submit two 6-inch (0.15m) samples of material indicating full color range and color variation.

**Product Sample:** Submit one 16-inch wide by 24-inch long fully functional sample blind.

**Maintenance Material (Extra Stock):** (Describe).

## PART 2– PRODUCTS

### 2.01 HORIZONTAL MINI BLINDS

#### **Manufacturer and Product:**

**Manufacturer:** Springs Window Fashions Division, Inc.

**Product:** Bali Heritage™ 2" Horizontal Blind.

**Options:** (Describe)

**Color(s):** Selected from Bali color standards.

#### **Product Description:**

**SureClose™ Headrail:** "U"-shaped 1 1/2" high by 2 1/4" deep channel with a 1/8" light blocking lip on the bottom center line, fabricated from 0.022 inch thick (before coating) phosphate treated steel with rolled edges at top with a prime coat of vinyl primer and finished coat of polyester baked enamel to match bottomrail and end support brackets and to coordinate with slats. Headrail shall be roll-

formed after coating.

**Head Channel Hardware:** Metal hardware shall be electroplated with lift cords and ladders guided by acetal low friction thermoplastic grommets in the head channel that prevent wear and discoloration. Operating hardware shall be mechanically locked into head channel, by means of snap-in fittings with no mechanical cleats visible from underside of headrail.

**Extruded Aluminum Bottomrail:** Aluminum bottomrail, 9/16 inch high by 2-inch deep, sculptured "C"-shape. The bottomrail is .040" thick (before coating) anodized aluminum extrusion, internally grooved to accept dust cover slat and coated with polyester baked enamel to match headrail and coordinate with slat color. Thermoplastic protective caps in bottom of rail shall be used to secure ladder ends and assure window sill protection. Hold-down bracket pins are available.

**Slats:** Slats shall be aluminum alloyed for maximum strength, flexibility and resistance to corrosion. Slats shall be nominally 2-inch wide and 0.008" thick. Slats shall have a pre-coating treatment to bind the polyester baked enamel finished coating that features our Advanced Finishing Technology (AFT), providing anti-static performance to help repel dust and a smoother, harder less porous surface. A properly formed contour creates the finished crown with corner radii of 3/16 inch tangent to edge of slat. The end clearance of each slat shall not exceed 1/4 inch from each side of the window opening for jamb installation. For face installation, slats shall overlap jamb by 1 1/2 inches maximum at each end where possible. Slat thickness and ladder support distances shall be such that there is no visible sag.

**Tilt Rod Support:** Tilt rod support shall be low friction thermoplastic and shall support tilt rod. It shall provide a smooth bearing surface and center the ladder drum over ladder hole. Incorporated with tilt rod support shall be metal lift cord rollers to guide lift cords when entering and exiting headrail for smoother lifting and lowering operation. Grommet shall prevent cord and braided ladder wear and discoloration.

**Ladder Drum:** Ladder drum shall be 0.022 inch thick electroplated steel. The standard braided ladders are attached by a crimp-on sleeve located on the top of the drum. Optional cloth tapes are attached by a locking prong, located on the top of the ladder drum, which secures the tapes to the drum.

**Cord Lock:** Metal cord lock shall be of a snap-in design and incorporate a floating shaft-type locking pin. The freely rotating locking pin shall offer minimum wear to cord. Cord lock shall incorporate a crash-proof safety feature that shall lock blind automatically upon release of cord. End of lift cords shall be treated with plastic tassels.

**Shaft Type Tilter:** The tilter shall be of a worm and gear arrangement in a totally enclosed gear case (housing). The worm (tilter shaft) and gear shall be zinc die castings and the gear housing of low friction thermoplastic. Tilter shall be a snap-in component allowing for field removal if required.

**Tilt Wand:** The tilt wand shall be a clear polycarbonate solid rod, with a hexagonal shape, measuring approximately 5/16 inch across the points, providing a positive, comfortable grip. The wand shall hang vertically by its own weight and should be of sufficient length for easy access and operation. Wand shall be attached to the tilter shaft by means of a hook and sleeve, and shall be easily detached and reattached in the field.

**Cord Tilter:** Snap-in component incorporating a worm and pulley of low friction thermoplastic and a gear of nylon. Tilt cords shall be secured to pulley and treated with tassels at tilt end.

**Square Tilt Rod:** Tilt rod shall be electro-zinc coated solid steel. Tilt rod shall be hexagonal in cross-section measuring 1/4" at its widest points.

**Braided Ladders (Slat Supports):** Braided ladder which will assure proper control with adequate overlap of slats in the closed position. Distance between end ladder and end of slats will not exceed 6-inches; distance between braided ladders shall not exceed 24 inches.

**Braided Ladder Material:** Material shall be 100% high tenacity polyester yarn. Vertical component of the ladder shall be not less than 0.045 inch diameter nor greater than 0.060 inch diameter, which shall provide maximum strength and flexibility with minimum stretch. Horizontal component, or rungs, shall be not less than two threads and shall be approximately 44.0mm long. Ladders shall be of sufficient length for bottom of blind to hang with a tolerance of plus one-half/minus zero inches of the specified length. Ladders shall be dyed to Bali color standard.

**Cloth Tapes:** (Slat Supports) an optional cloth tape shall be available. Material is 1 1/2" wide polyester construction. Distance between end tape and end of slats will not exceed 6 inches. Cloth tapes shall be coordinated to Bali color standard.

**Braided Ladder Clip:** Plated metal clip shall be mechanically clinched to the end of each braided ladder to lock in holes of ladder drum.

**Lift Cord:** Lift cord shall be braided with polyester jacket and center core or an approved equal construction. Size of cord shall be 1.8mm. Cords shall be detachable, if required, and shall be of sufficient length to properly control the raising or lowering of the blind. Lift cords shall be equipped with plastic tassels. Cord ends shall be securely anchored to the bottomrail and it shall be possible to detach and attach cords. Cording arrangements shall comply with assembly standards set for the size and weight of the blind. Cords shall be coordinated to Bali color standard.

**Cord Lock and Tilter Operation Locations:**

Bali 2" Horizontal Blinds shall be made with the following cord lock and tilter location options when viewed from within the room:

Tilter at left, cord lock at right (standard).

Cord lock at left, tilter at right (reverse).

Tilter and cord lock at left (both left).

Tilter and cord lock at right (both right).

On blinds 18 1/8 inches wide or less, only options 1 and 2 above apply.

**End Support Brackets:** Universal hinged cover end support brackets of phosphate treated steel with a prime coat of vinyl primer and a finish coat of baked on polyester enamel in color to match headrail. Brackets shall facilitate easy removal of head channel and will include an adjustable tab to eliminate lateral headrail movement.

**Intermediate Support Brackets:** Brackets shall be of electroplated steel stamping, and shall be furnished for blinds over 48 inches wide. Maximum spacing for intermediate support brackets shall be 48 inches.

**Extension Brackets:** Optional extension brackets are available. Brackets allow extensions of 1 inch and 1 3/4 inches.

**Hold-Down Brackets:** Universal hold-down brackets for sill or jamb installations are available.

***End Stiffeners:***

To add rigidity to the headrail, thermoplastic end stiffener caps shall be inserted at each end of the headrail.

***General:*** The blind shall be free of sharp edges, burrs or other defects which might be harmful. When other materials result in improved specifications, they may be adopted.

***Size Limitations:***

Maximum width: 142 inches.

Maximum drop: 126 inches.

***Color:*** Color of headrail, bottomrail, ladder, cord and plastic accessories shall coordinate with slats. Plastic headrail components will be either white or black.

**2.02 FABRICATION**

Prior to fabrication, verify actual opening dimensions by on-site measurement. Calculate blind dimensions to fit within specified tolerances.

Fabricate blinds to fill openings from head to sill and jamb-to-jamb. The minimum clearance blind-to-blind shall be 1/4-inch. Locate blind divisions at mullions.

Fabricate blinds to fill all exterior window openings except at doors, door sidelights and transoms unless noted.

**PART 3 – EXECUTION**

**3.01 INSPECTION**

Verify that the work area in which the blinds will be installed is free of conditions that interfere with blind installations and operations. Begin blind installation only when unsatisfactory conditions have been corrected.

**3.02 INSTALLATION**

Install blinds in accordance with manufacturer's procedures except as otherwise specified herein.

Install intermediate support brackets and extension brackets as needed to prevent deflection in headrail.

Install blinds with adequate clearance to permit smooth operation of blinds and any sash operators. Hold blinds 1/4-inch clear from each side of window opening on inside mount unless other clearance is indicated.

Set tilt and lift controls. Demonstrate blinds to be in smooth, uniform working order.

**3.03 CLEANING**

Clean soiled blind surfaces with a mild soap solution. Do not use steam, hot water, bleach or any abrasive or solvent-based cleaners. Do not wash metallic colors.

To ensure proper drying, provide adequate ventilation for blinds, remove bottomrail plastic end caps, and tip headrail and bottomrail to drain water.

**3.04 HORIZONTAL MINI BLIND SCHEDULE:**

Provide blinds at the following locations: (listing of blind locations, different options, types, accessories and colors).

# BALI S3000™ MINI BLINDS

## PART 1– GENERAL

### 1.01 DESCRIPTION

#### *Related Requirements*

The Conditions of the Contract (General and Supplementary, and other Conditions), and Division 1 General Requirements (if any) are part of this section. (Delete or retain as appropriate.)

### 1.02 QUALITY ASSURANCE

*Job mock-up:* (Describe)

### 1.03 SUBMITTALS

*Manufacturer's Product Data:* Submit manufacturer's descriptive product data and installation instructions for each type of blind specified.

*Shop Drawings:* Submit shop drawings indicating the following:

Field-measured dimensions of openings scheduled to receive blinds.

Illustrations of special accessory components not included in manufacturer's product data.

Details of head and sill conditions, corner conditions, and conditions between adjacent blind units.

*Color Sample:* Submit two 6-inch (0.15m) samples of material indicating full color range and color variation.

*Product Sample:* Submit one 16-inch wide by 24-inch long fully functional sample blind.

*Maintenance Material (Extra Stock):* (Describe).

## PART 2– PRODUCTS

### 2.01 HORIZONTAL BLINDS

#### *Manufacturer and Product:*

*Manufacturer:* Springs Window Fashions Division, Inc.

*Product:* Bali S3000 Mini Blind.

*Options:* (Describe)

*Color(s):* Selected from Bali color standards.

#### **Product Description:**

***Steel Channel Headrail:*** Headrail shall be 1-inch high by 1 1/2" deep. Design of the headrail to include rolled edges at top, light blocking lip at the lower back side and a curved headrail face similar to the crown of a 1-inch slat. Headrail to be fabricated from 0.024-inch thick (before coating) phosphate treated steel and finished with vinyl primer and a top coat of polyester baked enamel. Headrail shall

be roll-formed after coating.

**Head Channel Hardware:** Hardware shall be acetal low friction thermoplastic and guide lift cords and ladders in the head channel preventing wear and discoloration. Operating hardware shall be mechanically locked into head channel, by means of snap-in fittings with no mechanical cleats visible from underside of headrail.

**Enclosed Metal Bottomrail:** Completely enclosed tubular shape, 0.024-inch thick (before coating) phosphate treated steel with prime coat of vinyl primer and finished coat of polyester baked enamel matching headrail and coordinating with slat color. Bottomrail shall be roll-formed after coating with locking groove to receive dust cover. Bottomrail will be finished at each end with color-coordinated thermoplastic bottomrail end cap incorporating protective bumpers. Thermoplastic protective caps in bottom of rail shall be used to secure ladder ends and assure window sill protection. Hold-down bracket pins shall be available.

**Slats:** Slats shall be aluminum alloyed for maximum strength, flexibility and resistance to corrosion. Slats shall be nominally 1-inch wide, actual 0.991-inch (plus .004-inch or minus .000-inch). Standard thickness is 0.006", optional 0.008" is available. Slats shall have a pre-coating treatment to bond the polyester baked enamel finished coating that features our Advanced Finishing Technology (AFT) providing anti-static performance to help repel dust and a smoother, harder less porous surface. A properly formed contour creates the finished crown with corner radii of 3/16-inch tangent to edge of slat. The end clearance of each slat shall not exceed 1/4-inch from each side of the window opening for jamb installation. For face installation, slats shall overlap jamb by 1 1/2-inches maximum on each end where possible. Slat thickness and ladder support distances shall be such that there is no visible sag.

**Privacy Slat Option:** Privacy slat option provides slats with offset route holes and 18mm braided ladder spacing for enhanced light control. When slats are tilted down, route holes are concealed by slat overlap.

**Tilt Rod Support:** Tilt rod support shall be acetal low friction thermoplastic and shall support tilt rod. It shall provide a smooth bearing surface and center the ladder drum over ladder hole. Incorporated with tilt rod support shall be metal lift cord rollers to guide lift cords when entering and exiting headrail for smoother lifting and lowering operation. Acetal grommet shall have beveled edges to prevent cord and braided ladder wear and discoloration.

**Ladder Drum:** Shall be injection molded thermoplastic with smooth hole edges to position ladder. Ladders will be securely attached by means of a snap down top, eliminating the need for braided ladder clips.

**Cord Lock:** Cord lock shall be of a snap-in design and incorporate a stainless steel wear guard over which cords pass and a floating shaft-type locking pin. Locking pin shall be free of abrasive teeth and offer minimum wear to cord. Cord lock shall incorporate a "crash-proof" safety feature that shall lock blind automatically upon release of cord. End of lift cords shall be treated with plastic tassels.

**Cord Guide:** Shall be nickel plated steel and will guide and center lift cords into cord lock opening.

**Ring Pull:** An optional lift cord pull ring is available in lieu of cord tassels and shall be supplied with a standard 4-inch control length.

**Top-Locking Cord Lock:** An optional top-locking cord lock shall be available which provides for locking the blind in the fully raised position only with no intermediate locking positions

other than fully lowered. The crash-proof feature is not available with a top-locking cord lock.

**Shaft Type Tilter:** The tilter shall be of a worm and gear arrangement in a totally enclosed gear case (housing). A built-in clutch mechanism begins to operate when slats are fully closed in either direction and rotation continues to be applied to the tilter. The worm (tilter shaft) shall be of clear polycarbonate; the gear of nylon and the gear housing of acetal thermoplastic. The tilter shall be designed for smooth, low friction.

**Tilt Wand:** The tilt wand shall be a clear polycarbonate hollow rod, with a hexagonal shape measuring approximately 1/4-inch across the points, providing a positive, comfortable grip. The wand shall hang vertically by its own weight and should be of sufficient length for easy access and operation. Wand shall be attached to the tilter shaft by means of a spring clip and shall be easily detached and reattached in the field.

**Tilt Ring:** An optional tilt ring shall be attached to the tilter shaft in lieu of a wand via the tilter shaft link with field provision of a pole-hook for operation.

**Tilt Limiter:** An optional single-range tilt limiter shall allow a select range of slat tilting operation including a fixed angle if so specified.

**Hexagonal Tilt Rod:** Tilt rod shall be electro-zinc coated solid steel. Tilt rod shall be hexagonal in cross-section measuring 1/4-inch at its widest points. Tilt rod shall limit torsional deflection to 6 degrees in a 30-inch test length with a torque application of one-foot pound.

**Braided Ladders (Slat Supports):** Bali S3000 shall have braided ladder which will assure proper control with adequate overlap of slats in the closed position. Distance between end ladder and end of slats will not exceed 6 inches; distance between braided ladders shall not exceed 23 inches.

**Braided Ladder Material:** Material shall be 100% high tenacity polyester yarn. Vertical component shall be not less than 0.045-inch diameter nor greater than 0.066-inch diameter, and shall provide maximum strength and flexibility with minimum stretch. Horizontal component, or rungs, shall be not less than two threads and shall be approximately 31.0mm long. Standard ladder will provide 21.5mm of distance between slats. Optional 20mm spacing is available. Ladders shall be of sufficient length for bottom of blind to hang with a tolerance of plus one-half/minus zero inches of the specified length. Ladders shall be dyed to Bali color standard.

**Lift Cords:** Lift cords shall be braided with polyester jacket and center core or an approved equal construction. Size of cord shall be 1.4mm. Cords shall be detachable, if required, and shall be of sufficient length to properly control the raising or lowering of the blind. Lift cords shall be equipped with plastic tassels, or optional ring pull with a 4-inch cord. Cord ends shall be securely anchored to the bottomrail and it shall be possible to detach and attach cords. Cording arrangements shall comply with assembly standards set for the size and weight of the blind. Cords shall be dyed to color standard.

#### **Cord Lock and Tilter Operation Locations:**

Bali S3000 shall be made with the following cord lock and tilter location options when viewed from within the room:

Tilter at left, cord lock at right (standard).

Cord lock at left, tilter at right (reverse).

Tilter and cord lock at left (both left).

Tilter and cord lock at right (both right).

On blinds less than 20 7/8 inches wide, only options 1 and 2 above apply.

**Installation Brackets:** Top loading hidden brackets are made of zinc plated steel. Brackets shall allow adequate space to accommodate power screwdriver for mounting. The brackets shall facilitate easy installation and removal of head channel.

Optional end support box brackets made of steel are available in a limited color range. Face of bracket hinge shall be curved to match curve of headrail face.

**Intermediate Support Brackets:** Brackets shall be furnished for blinds over 60 inches wide. Maximum spacing for intermediate support brackets shall be 48 inches.

**Extension Brackets:** Optional Extension brackets are available.

**Hold-Down Brackets:** Optional universal hold-down brackets for sill or jamb installations are available.

**Headrail End Plugs:**

To add rigidity to the headrail, thermoplastic color coordinated end plugs shall be inserted at each end of the headrail. For box brackets applications steel end stiffeners will be substituted for end plugs.

**General:** The blind shall be free of sharp edges, burrs or other defects which might be harmful. When other materials result in improved specifications, they may be adopted.

**Size Limitations:**

Maximum width: 143 3/4 inches (single blind on one headrail). Blinds up to 192 inches are available as two blinds on one headrail.

Maximum drop: Standard drop 126 inches; 240 inches with Engineering approval.

**Color:** Color of headrail, bottomrail, ladder, cord and plastic accessories shall coordinate with slats.

## 2.02 FABRICATION

Prior to fabrication, verify actual opening dimensions by on-site measurement. Calculate blind dimensions to fit within specified tolerances.

Fabricate blinds to fill openings from head to sill and jamb to jamb. The minimum clearance blind-to-blind shall be 1/4-inch. Locate blind divisions at mullions.

Fabricate blinds to fill all exterior window openings except at doors, door sidelights and transoms unless noted.

## PART 3 – EXECUTION

### 3.01 INSPECTION

Verify that the work area in which the blinds will be installed is free of conditions that interfere with blind installations and operations. Begin blind installation only when unsatisfactory conditions have been corrected.

### **3.02 INSTALLATION**

Install blinds in accordance with manufacturer's procedures except as otherwise specified herein.

Install intermediate support brackets and extension brackets as needed to prevent deflection in headrail.

Install blinds with adequate clearance to permit smooth operation of blinds and any sash operators. Hold blinds 1/4-inch clear from each side of window opening on inside mount unless other clearance is indicated.

Set tilt and lift controls. Demonstrate blinds to be in smooth, uniform working order.

### **3.03 CLEANING**

Clean soiled blind surfaces with a mild soap solution. Do not use steam, hot water, bleach or any abrasive or solvent-based cleaners. Do not wash metallic colors.

To ensure proper drying, provide adequate ventilation for blinds, remove bottomrail plastic end caps, and tip headrail and bottomrail to drain water.

### **3.04 HORIZONTAL MINI BLIND SCHEDULE:**

Provide blinds at the following locations: (listing of blind locations, different options, types, accessories and colors).

# BALI S4000 MICRO BLINDS

## PART 1– GENERAL

### 1.01 DESCRIPTION

#### *Related Requirements*

The Conditions of the Contract (General and Supplementary, and other Conditions), and Division 1 General Requirements (if any) are part of this section. (Delete or retain as appropriate.)

### 1.02 QUALITY ASSURANCE

*Job mock-up:* (Describe)

### 1.03 SUBMITTALS

*Manufacturer's Product Data:* Submit manufacturer's descriptive product data and installation instructions for each type of blind specified.

*Shop Drawings:* Submit shop drawings indicating the following:

Field-measured dimensions of openings scheduled to receive blinds.

Illustrations of special accessory components not included in manufacturer's product data.

Details of head and sill conditions, corner conditions, and conditions between adjacent blind units.

*Color Sample:* Submit two 6-inch (0.15m) samples of material indicating full color range and color variation.

*Product Sample:* Submit one 16-inch wide by 24-inch long fully functional sample blind.

*Maintenance Material (Extra Stock):* (Describe).

## PART 2– PRODUCTS

### 2.01 HORIZONTAL BLINDS

#### *Manufacturer and Product:*

*Manufacturer:* Springs Window Fashions Division, Inc.

*Product:* Bali S4000 Micro Blind.

*Options:* (Describe)

*Color(s):* Selected from Bali color standards.

#### **Product Description:**

***Steel Channel Headrail:*** Bali S4000 micro blind headrail shall be 1-inch high by 1 1/2" deep. Design of the headrail to include rolled edges at top, light blocking lip at the lower back side and a curved headrail face similar to the crown of a 1-inch slat. Headrail to be fabricated from 0.024-inch thick (before coating) phosphate treated steel and finished with vinyl primer and a top coat of polyester

baked enamel. Headrail shall be roll-formed after coating.

**Head Channel Hardware:** Hardware shall be acetal low friction thermoplastic and guide lift cords and ladders in the head channel preventing wear and discoloration. Operating hardware shall be mechanically locked into head channel, by means of snap-in fittings with no mechanical cleats visible from underside of headrail.

**Bottomrail:** The bottomrail shall be 0.024-inch thick (before coating) phosphate treated steel with prime coat of vinyl primer and finished coat of polyester baked enamel matching headrail and coordinating with slat color. Bottomrail shall be roll-formed after coating. Thermoplastic protective caps in bottom of rail shall be used to secure ends and assure window sill protection. Thermoplastic end plug shall accept hold-down bracket pins.

**Slats:** Slats shall be aluminum alloyed for maximum strength, flexibility and resistance to corrosion. Slats shall be nominally 1/2-inch wide, actual 0.594-inch (plus .004-inch or minus .000-inch). Slats shall have a pre-coating treatment to bond the polyester baked enamel finished coating. The minimum coating thickness shall be nominally 1.0 mil. A properly formed contour creates the finished crown with corner radii of 1/8-inch tangent to edge of slat. The end clearance of each slat shall not exceed 1/4-inch from each side of the window opening for jamb installation. For face installation, slats shall overlap jamb by 1 1/2-inches maximum on each end where possible. Slat thickness and ladder support distances shall be such that there is no visible sag.

**Tilt Rod Support:** Tilt rod support shall be acetal low friction thermoplastic and shall support tilt rod. It shall provide a smooth bearing surface and center the ladder drum over ladder hole. Incorporated with tilt rod support shall be a grommet guide to guide lift cord and braided ladder through bottom of headrail to prevent cord and braided ladder wear and discoloration. Lift cord rollers will also be included on tilt rod supports for smoother and easier lifting and lowering operation.

**Ladder Drum:** Shall be injection molded thermoplastic with smooth hole edges to position ladder. Ladders will be securely attached by means of a snap down top, eliminating the need for braided ladder clips.

**Cord Lock:** Cord lock shall be of a snap-in design and incorporate a stainless steel wear guard over which cords pass and a floating shaft-type locking pin. Locking pin shall be free of abrasive teeth and offer minimum wear to cord. Cord lock shall incorporate a "crash-proof" safety feature that shall lock blind automatically upon release of cord. End of lift cord shall be treated with plastic tassels.

**Cord Guide:** Shall be nickel plated steel and will guide and center lift cords into cord lock opening.

**Ring Pull:** An optional lift cord pull ring is available in lieu of cord tassels and shall be supplied with a standard 4-inch control length.

**Top-Locking Cord Lock:** An optional top-locking cord lock shall be available which provides for locking the blind in the fully raised position only with no intermediate locking positions other than fully lowered. The crash-proof feature is not available with a top-locking cord lock.

**Shaft Type Tilter:** The tilter shall be of a worm and gear arrangement in a totally enclosed gear case (housing). A built-in clutch mechanism begins to operate when slats are fully closed in either direction and rotation continues to be applied to the tilter. The worm (tilter shaft) shall be of clear polycarbonate; the gear of nylon and the gear housing of acetal thermoplastic. The tilter shall be designed for smooth, low friction operation and shall hold slats at any angle with no movement of slats, due to vibration. Clutch tilter shall be a snap-in component allowing for field removal if

required.

**Tilt Wand:** The tilt wand shall be a clear polycarbonate hollow rod, with a hexagonal shape measuring approximately 1/4-inch across the points, providing a positive, comfortable grip. The wand shall hang vertically by its own weight and should be of sufficient length for easy access and operation. Wand shall be attached to the tilter shaft by means of a spring clip and shall be easily detached and reattached in the field.

**Tilt Ring:** An optional tilt ring shall be attached to the tilter shaft in lieu of a wand via the tilter shaft link with field provision of a pole-hook for operation.

**Tilt Limiter:** An optional single-range tilt limiter shall allow a select range of slat tilting operation including a fixed angle if so specified.

**Hexagonal Tilt Rod:** Tilt rod shall be electro-zinc coated solid steel. Tilt rod shall be hexagonal in cross-section measuring 1/4-inch at its widest points. Tilt rod shall limit torsional deflection to 6 degrees in a 30-inch test length with a torque application of one-foot pound.

**Braided Ladders (Slat Supports):** Bali S4000 Micro Blinds shall have braided ladder which will assure proper control with adequate overlap of slats. Distance between end ladder and end of slats will not exceed 4 inches; distance between braided ladders shall not exceed 14 inches.

**Braided Ladder Material:** Material shall be 100% high tenacity polyester yarn. The vertical components of the ladder shall be not less than 0.025-inch diameter nor greater than 0.046-inch diameter, and shall provide maximum strength and flexibility with minimum stretch. Horizontal component, or rungs, shall be not less than two threads and shall be approximately 20.5mm long. Ladders shall be of sufficient length for bottom of blind to hang with a tolerance of plus one-half/minus zero inches of the specified length. Ladders shall be dyed to Bali color standard.

**Lift Cord:** Lift cord shall be braided with polyester jacket and center core or an approved equal construction. Size of cord shall be 1.4mm. Cords shall be detachable, if required, and shall be of sufficient length to properly control the raising or lowering of the blind. Lift cord shall be equipped with plastic tassels, or optional ring pull with a 4-inch cord. Cord ends shall be securely anchored to the bottom rail and it shall be possible to detach and attach cords. Cording arrangements shall comply with assembly standards set for the size and weight of the blind. Cords shall be dyed to color standard.

**Cord Lock and Tilter Operation Locations:**

Bali S4000 Micro Blind shall be made with the following cord lock and tilter location options when viewed from within the room:

Tilter at left, cord lock at right (standard).

Cord lock at left, tilter at right (reverse).

Tilter and cord lock at left (both left).

Tilter and cord lock at right (both right).

On blinds less than 20 7/8 inches wide, only options 1 and 2 above apply.

**Installation Brackets:** Snap-in hidden brackets are made of zinc plated steel. Brackets shall allow

adequate space to accommodate power screwdriver for mounting. The brackets shall facilitate easy installation and removal of head channel.

**Intermediate Support Brackets:** Brackets shall be furnished for blinds over 60 inches wide. Maximum spacing for intermediate support brackets shall be 48 inches.

**Extension Brackets:** Optional extension brackets are available.

**Hold-Down Brackets:** Optional universal hold-down brackets for sill or jamb installations are available.

**Headrail End Plugs:**

To add rigidity to the headrail, thermoplastic color coordinated end plugs shall be inserted at each end of the headrail.

**General:** The blind shall be free of sharp edges, burrs or other defects which might be harmful. When other materials result in improved specifications, they may be adopted.

**Size Limitations:**

Maximum width: 120 inches

Maximum drop: 1086 inches

**Color:** Color of headrail, bottomrail, ladder, cord and plastic accessories shall coordinate with slats.

## 2.02 FABRICATION

Prior to fabrication, verify actual opening dimensions by on-site measurement. Calculate blind dimensions to fit within specified tolerances.

Fabricate blinds to fill openings from head to sill and jamb to jamb. The minimum clearance blind-to-blind shall be 1/4-inch. Locate blind divisions at mullions.

Fabricate blinds to fill all exterior window openings except at doors, door sidelights and transoms unless noted.

## PART 3 – EXECUTION

### 3.01 INSPECTION

Verify that the work area in which the blinds will be installed is free of conditions that interfere with blind installations and operations. Begin blind installation only when unsatisfactory conditions have been corrected.

### 3.02 INSTALLATION

Install blinds in accordance with manufacturer's procedures except as otherwise specified herein.

Install intermediate support brackets and extension brackets as needed to prevent deflection in headrail.

Install blinds with adequate clearance to permit smooth operation of blinds and any sash operators. Hold blinds 1/4-inch clear from each side of window opening on inside mount unless other clearance is indicated.

Set tilt and lift controls. Demonstrate blinds to be in smooth, uniform working order.

### 3.03 CLEANING

Clean soiled blind surfaces with a mild soap solution. Do not use steam, hot water, bleach or any abrasive or solvent-based cleaners. Do not wash metallic colors.

To ensure proper drying, provide adequate ventilation for blinds, remove bottomrail plastic end caps, and tip headrail and bottomrail to drain water.

**3.04 HORIZONTAL MINI BLIND SCHEDULE:**

Provide blinds at the following locations: (listing of blind locations, different options, types, accessories and colors).

# BALI® SELECTWOOD™ 2" HORIZONTAL BLINDS

## PART 1– GENERAL

### 1.01 DESCRIPTION

#### *Related Requirements*

The Conditions of the Contract (General and Supplementary, and other Conditions), and Division 1 General Requirements (if any) are part of this section. (Delete or retain as appropriate.)

### 1.02 QUALITY ASSURANCE

*Job mock-up:* (Describe)

### 1.03 SUBMITTALS

**Manufacturer's Product Data:** Submit manufacturer's descriptive product data and installation instructions for each type of blind specified.

**Shop Drawings:** Submit shop drawings indicating the following:

Field-measured dimensions of openings scheduled to receive blinds.

Illustrations of special accessory components not included in manufacturer's product data.

Details of head and sill conditions, corner conditions, and conditions between adjacent blind units.

**Color Sample:** Submit two 6-inch (0.15m) samples of material indicating full color range and color variation.

**Product Sample:** Submit one 16-inch wide by 24-inch long fully functional sample blind.

**Maintenance Material (Extra Stock):** (Describe).

## PART 2– PRODUCTS

### 2.01 HORIZONTAL MINI BLINDS

#### **Manufacturer and Product:**

**Manufacturer:** Springs Window Fashions Division, Inc.

**Product:** Bali Custom SelectWood™ 2" Horizontal Blind.

**Options:** (Describe)

**Color(s):** Selected from Bali color standards.

#### **Product Description:**

**SureClose™ Headrail:** "U"-shaped 1 1/2" high by 2 1/4" deep channel with a 1/8" light blocking lip on the bottom center line, fabricated from 0.022 inch thick (before coating) phosphate treated steel with rolled edges at top with a prime coat of vinyl primer and finished coat of polyester baked enamel to match bottomrail and end support brackets and to coordinate with slats. Headrail shall be roll-

formed after coating.

**Head Channel Hardware:** Metal hardware shall be electroplated with lift cords and ladders guided by acetal low friction thermoplastic grommets in the head channel that prevent wear and discoloration.

**Bottomrail:** Bottomrail shall be foam PVC, nominally 2" deep by .706" high. Bottomrail finished to coordinate with slat color. Optional holddown bracket pins are available.

**Slats:** Slats shall be foam PVC crowned for maximum strength. Slats shall be nominally 2" wide by .145" thick. The end clearance of each slat shall not exceed 1/4" from each side of the window opening for jamb installation. For face installation, slats shall overlap jamb by 1 1/2", maximum at each end, where possible. Ladder support distances shall be such that there is no visible sag.

**Tilt Rod Support:** Tilt rod support shall be low friction thermoplastic and shall support tilt rod. It shall provide a smooth bearing and center the ladder drum over ladder hole. Incorporated with tilt rod support shall be metal lift cord rollers to guide lift cords when entering and exiting headrail for smoother lifting and lowering operation. Grommet shall prevent cord and braided ladder wear and discoloration.

**Ladder Drum:** Ladder drum shall be 0.022 inch thick electroplated steel. The standard braided ladders are attached by a crimp-on sleeve located on the top of the drum. Optional cloth tapes are attached by a locking prong, located on the top of the ladder drum, which secures the tapes to the drum.

**Cord Lock:** Metal cord lock shall be of a snap-in design and incorporate a floating shaft-type locking pin. The freely rotating locking pin shall offer minimum wear to cord. Cord lock shall incorporate a crash-proof safety feature that shall lock blind automatically upon release of cord. End of lift cords shall be treated with wood tassels.

**Shaft Type Tilter:** The tilter shall be of a worm and gear arrangement in a totally enclosed gear case (housing). The worm (tilter shaft) and gear shall be zinc die castings and the gear housing of low friction thermoplastic. Tilter shall be a snap-in component allowing for field removal if required.

**Tilt Wand:** The tilt wand shall be of wood, finished to coordinate with the slat color. The wand shall hang vertically by its own weight and should be of sufficient length for easy access and operation. Wand shall be attached to the tilter shaft by means of a clip and sleeve and shall be easily detached and reattached in the field. Wands over 48" will be of clear plastic.

**Cord Tilter:** Snap-in component incorporating a worm and pulley of low friction thermoplastic and a gear of nylon. Tilt cords shall be secured to pulley and treated with tassels at tilt end.

**Square Tilt Rod:** Tilt rod shall be electro-zinc coated solid steel. Tilt rod shall be square in cross-section measuring 1/4" at its widest points. Tilt rod shall limit torsional deflection to 6 degrees in a 30" test length with a torque application of one-foot pound.

**Braided Ladders (Slat Supports):** Braided ladder which will assure proper control with adequate overlap of slats in the closed position. Distance between end ladder and end of slats will not exceed 6 inches; distance between braided ladders shall not exceed 22 inches.

**Braided Ladder Material:** Material shall be 100% high tenacity polyester yarn. Vertical component of the ladder shall be not less than 0.045 inch diameter nor greater than 0.066 inch diameter, which shall provide maximum strength and flexibility with minimum stretch. Horizontal component, or rungs, shall be not less than two threads. Ladders shall be of sufficient length for bottom of blind to hang with a tolerance of plus one-half/minus zero inches of the specified length. Ladders shall be dyed to Bali color standard.

**Cloth Tapes:** (Slat Supports) an optional cloth tape shall be available. Material is 1 1/2" wide polyester/rayon construction. Distance between end tape and end of slats will not exceed 6". Cloth tapes shall be coordinated to Bali color standard.

**Braided Ladder Clip:** Plated metal clip shall be mechanically clinched to the end of each braided ladder to lock in holes of ladder drum.

**Lift Cord:** Lift cord shall be braided with polyester jacket and center core or an approved equal construction. Size of cord shall be 1.8mm. Cords shall be of sufficient length to properly control the raising or lowering of the blind. Lift cords shall be equipped with plastic tassels. Cord ends shall be securely anchored to the bottomrail and it shall be possible to detach and attach cords. Cording arrangements shall comply with assembly standards set for the size and weight of the blind. Cords shall be coordinated to Bali color standard.

**Cord Lock and Tilter Operation Locations:**

Bali SelectWood™ Horizontal Blinds shall be made with the following cord lock and tilter location options when viewed from within the room:

Tilter at left, cord lock at right (standard).

Cord lock at left, tilter at right (reverse).

Tilter and cord lock at left (both left).

Tilter and cord lock at right (both right).

On blinds 18" wide or less, only options 1 and 2 above apply.

**End Support Brackets:** Universal hinged cover end support brackets of phosphate treated steel with a prime coat of vinyl primer and a finish coat of baked on polyester enamel in color to match headrail. Brackets shall facilitate easy removal of head channel and will include an adjustable tab to eliminate lateral headrail movement.

**Intermediate Support Brackets:** Brackets shall be furnished for blinds over 48" wide. Maximum spacing for intermediate support brackets shall be 48".

**Extension Brackets:** Optional extension brackets are available in 2 7/8" and 4 7/8" sizes.

**Hold-Down Brackets:** Universal hold-down brackets for sill or jamb installations are available.

**End Stiffeners:**

To add rigidity to the headrail, thermoplastic end stiffener caps shall be inserted at each end of the headrail.

**General:** The blind shall be free of sharp edges, burrs or other defects which might be harmful. When other materials result in improved specifications, they may be adopted.

**Color:** Color of headrail, bottomrail, ladder, cord and plastic accessories shall coordinate with slats. Plastic headrail components will be either white or black.

## 2.02 FABRICATION

Prior to fabrication, verify actual opening dimensions by on-site measurement. Calculate blind dimensions to fit

within specified tolerances.

Fabricate blinds to fill openings from head to sill and jamb-to-jamb. The minimum clearance blind-to-blind shall be 1/4-inch. Locate blind divisions at mullions.

Fabricate blinds to fill all exterior window openings except at doors, door sidelights and transoms unless noted.

### **PART 3 – EXECUTION**

#### **3.01 INSPECTION**

Verify that the work area in which the blinds will be installed is free of conditions that interfere with blind installations and operations. Begin blind installation only when unsatisfactory conditions have been corrected.

#### **3.02 INSTALLATION**

Install blinds in accordance with manufacturer's procedures except as otherwise specified herein.

Install intermediate support brackets and extension brackets as needed to prevent deflection in headrail.

Install blinds with adequate clearance to permit smooth operation of blinds and any sash operators. Hold blinds 1/4-inch clear from each side of window opening on inside mount unless other clearance is indicated.

Set tilt and lift controls. Demonstrate blinds to be in smooth, uniform working order.

#### **3.03 CLEANING**

Blinds may be dusted. Clean soiled blind surfaces with a mild soap solution. Do not use steam, hot water, bleach or any abrasive or solvent-based cleaners.

#### **3.04 HORIZONTAL MINI BLIND SCHEDULE:**

Provide blinds at the following locations: (listing of blind locations, different options, types, accessories and colors).