

GRABER PRODUCTS

For more information contact:

Springs Window Fashions Division, Inc.

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GRABER® G-71® SUPER-VUE® HEADRAIL

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 samples of vane material indicating full color range and color variation.

Product Sample: Submit one 16-inch wide fully functional vertical headrail.

Maintenance Material (Extra Stock): (Describe).

PART 2– PRODUCTS

2.01 VERTICAL BLINDS

Manufacturer and Product:

Manufacturer: Springs Window Fashions Division, Inc.

Product: Graber G-71 Super-Vue Vertical Blind Headrail System.

Options: (Describe)

Color(s): Selected from Graber Vertical Sample Selector.

Product Description:

G-85 Super-Vue Headrail Format:

Headrail shall measure 1 15/16 inches in width and 1 3/8 inches in height, with an average wall thickness of 0.050-inch and be made of satin finished anodized aluminum alloy 6063-T5.

Carrier body shall be molded nylon with a detachable louver stem molded in clear, non-

yellowing, high impact resistant nylon. Carrier shall traverse on self-lubricated wheels to reduce draw force, and the louver stem shall be replaceable without demounting the headrail. Carriers are located in the center headrail, making headrail reversible.

Rotation of louvers shall be provided by pulling a #10 nickel-plated bead chain finished with tassels which rotates a planetary gear system in the drive-end control housing. This drives an extruded (.300 dia.) aluminum pinion rod passing through all carriers and transmits rotation to each louver stem through a molded rack and pinion gear system. The drive system shall rotate all louvers simultaneously a full 180 degrees and hold them in a fixed position until reset. In addition, the optional E-Z Open™ feature will rotate the louvers to the open position whenever the traverse cord is operated.

Housing Assembly on the drive-end shall be molded acetal with a nylon planetary hub that engages with the pinion rod. The idle-end housing shall be molded acetal. The housing end covers shall be 16-gauge (.060") steel.

Spacing of louvers shall be achieved with a pantograph system made of hard tempered 18-gauge (.046) plated steel. Uniform louver spacing shall be maintained when traversed across the length of the headrail. In the closed position, louver overlap shall be no less than 3/8-inch.

Traversing shall be by means of a pulley system and a #3 (.094") traverse cord attached to the lead carrier. The self-lubricating cord pulley wheels of the drive-end shall rotate freely on their axles to allow for smooth traversing with a minimum draw force. The traverse cord shall have a minimum tensile strength of 125 pounds and a maximum stretch while in use not to exceed 1%. The cord shall be held down by a cord tension pulley that is attached to the floor, sill or jamb. The center spaced louvers allow one way traverse installations to draw from right or left.

Stack Release: Feature is available as an option, allowing for louvers to be moved away from control end(s) for window cleaning.

Custom Color: Optional for headrail matched to color chip provided (minimum release quantity required).

Traversing: Optional headrail may be supplied without traverse cord for non-traversing blind.

Curved Headrail Option: The G-71 Super-Vue can be custom curved to fit curved windows and wall sections. Maximum headrail width for 3 1/2" louvers is 68" and for 2" louvers, 120". **Not available with One-Touch controls or E-Z Open™ option.**

E-Z Open™ Option: This option is available on standard cord draw G-71 blinds and automatically rotates louvers open when the traverse cords are operated. When this option is selected we will provide a cord weight and a cord clip which is applied to the cord. This clip is to be fastened to a wall or window jamb directly above the cord weight. These items will be provided in lieu of a tension pulley.

Louvers:

Louvers shall be selected from the Graber Vertical Louver Sample Selector. All vertical louvers shall be manufactured to exacting standards to resist fading, twisting and brittleness. Fabric louvers shall contain a bottom weight pocket sewn at the bottom with clear, poly thread. Each pocket shall contain one weight. Standard specification shall be no bottom chain for PVC, aluminum and fabric louvers. Optional specification shall be single bottom chain. Note: Bottom chain not available with fabrics inserted in

groover.

Installation Brackets: Shall be provided to support the weight of the blind plus forces applied to operate the blind. Include hardware necessary for secure attachment of brackets to adjoining construction and headrail. Brackets shall be designed to facilitate installation and removal of 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 for Cord Draw/Chain Rotation Controlled Blinds with 3 1/2" Louvers:

Maximum width: 191"

Maximum drop: 144"

5a. Size Limitations with Channel Panel Louvers:

Maximum drop: 120"

5b. Size Limitations with 2" PVC Louvers:

Maximum width: 157 1/4"

Warranty: Manufacturer shall warrant finished headrail against defects in materials and workmanship for the life of the product. Finished louvers shall be warranted against defects in materials and workmanship for a period of three (3) years. Painted finishes shall be warranted to maintained gloss and resist peeling, fading and chalking for a period of three (3) years.

2.02 FABRICATION

Prior to fabrication, verify actual opening dimensions by on-site measurements. 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 installation procedure except as otherwise specified herein.

Install all brackets provided to prevent deflection in headrail.

Install blinds with adequate clearance to permit smooth operation of blinds and any sash operators. Hold blinds 1/8-inch clear from each side of window opening on inside mount unless other clearance is indicated.

Demonstrate blinds to be in smooth, uniform working order.

Store installed blinds in fully stacked position to avoid damage and accumulation of dust and dirt until such time that these conditions are eliminated.

3.03 CLEANING

If solid vinyl or aluminum louvers become soiled, wipe or sponge using a mild detergent and warm water solution. With fabric louvers, dust or vacuum with an upholstery attachment, for soil removal, sponge using a mild detergent and warm water solution (or a dry fabric cleaner) and blot dry. Do not immerse in water or dry clean.

3.04 VERTICAL BLIND SCHEDULE:

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

GRABER® G-71® SUPER-VUE® ONE-TOUCH™ HEADRAIL

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 samples of louver material indicating full color range and color variation.

Product Sample: Submit one 16-inch wide fully functional vertical headrail.

Maintenance Material (Extra Stock): (Describe).

PART 2– PRODUCTS

2.01 VERTICAL BLINDS

Manufacturer and Product:

Manufacturer: Springs Window Fashions Division, Inc.

Product: Graber G-71 Super-Vue One-Touch Vertical Blind Headrail System.

Options: (Describe)

Color(s): Selected from Graber Vertical Sample Selector.

Product Description:

G-71 Super-Vue One-Touch Headrail Format:

Headrail shall measure 1 15/16 inches in width and 1 3/8 inches in height, with an average wall thickness of 0.050-inch and be made of satin finished anodized aluminum alloy 6063-T5.

Carrier body shall be molded acetal with a detachable louver stem molded in clear, non-

yellowing, high impact resistant nylon. Carrier shall traverse on self-lubricated wheels to reduce draw force, and the louver stem shall be replaceable without demounting the headrail. Carriers are located in the center of headrail, making headrail reversible.

Rotation of louver shall be provided by rotating the (5/16" dia.) fiberglass wand which rotates a dual worm gear system in the control housing. This drives an extruded (.300 dia.) aluminum pinion rod passing through all carriers and transmits rotation to each louver stem through a molded rack and pinion gear system. The drive system shall rotate all louvers simultaneously a full 180 degrees and hold them in a fixed position until reset.

Spacing of louvers shall be achieved with a pantograph system made of hard tempered 18-gauge (.046) plated steel. Uniform louver spacing shall be maintained when traversed across the length of the headrail. In the closed position, louver overlap shall be no less than 3/8-inch.

Traversing shall be by means of sliding the wand control which is attached to the lead carrier.

Wand Length Schedule

Louvers up to 85" long: 33" Wand

Louvers between 85 1/8" and 102": 48" Wand

Louvers between 102 1/8" and 114": 60" Wand

Custom Color: Optional for headrail matched to color chip provided (minimum release quantity required).

Louvers - 3 1/2" Wide Only:

Louvers shall be selected from the Graber Vertical Louver Sample Selector. All vertical louvers shall be manufactured to exacting standards to resist fading, twisting and brittleness. Fabric louvers shall contain a bottom weight pocket sewn at the bottom with clear, poly thread. Each pocket shall contain one weight. Standard specification shall be no bottom chain for PVC, aluminum and fabric louvers. Optional specification shall be single bottom chain. Note: Bottom chain not available with fabrics inserted in groover.

Sewn-in Weight: Bottom weight is enclosed in pocket of fabric louver by sewing on three sides.

Installation Brackets: Shall be provided to support the weight of the blind plus forces applied to operate the blind. Include hardware necessary for secure attachment of brackets to adjoining construction and headrail. Brackets shall be designed to facilitate installation and removal of track.

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: Overall maximum size: 70 square feet

Maximum width: 156" with a maximum drop of 64 1/2"

Maximum drop: 114" with a maximum width of 88"

Louver width: 3 1/2"

Warranty: Manufacturer shall warrant finished headrail against defects in materials and workmanship for the life of the product. Finished louvers shall be warranted against defects in materials and workmanship for a period of three (3) years. Painted finishes shall be warranted to maintained gloss and resist peeling, fading and chalking for a period of three (3) years.

2.02 FABRICATION

Prior to fabrication, verify actual opening dimensions by on-site measurements. 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" minimum. 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 installation procedure except as otherwise specified herein.

Install all brackets provided to prevent deflection in headrail.

Install blinds with adequate clearance to permit smooth operation of blinds and any sash operators. Hold blinds 1/8-inch clear from each side of window opening on inside mount unless other clearance is indicated.

Demonstrate blinds to be in smooth, uniform working order.

Store installed blinds in fully stacked position to avoid damage and accumulation of dust and dirt until such time that these conditions are eliminated.

3.03 CLEANING

If solid vinyl or aluminum louvers become soiled, wipe or sponge using a mild detergent and warm water solution. With fabric louvers, dust or vacuum with an upholstery attachment, for soil removal, sponge using a mild detergent and warm water solution (or a dry fabric cleaner) and blot dry. Do not immerse in water or dry clean.

3.04 VERTICAL BLIND SCHEDULE:

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

GRABER® G-85 DURA-VUE® HEADRAIL

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 samples of louver material indicating full color range and color variation.

Product Sample: Submit one 16-inch wide fully functional vertical headrail.

Maintenance Material (Extra Stock): (Describe).

PART 2– PRODUCTS

2.01 VERTICAL BLINDS

Manufacturer and Product:

Manufacturer: Springs Window Fashions Division, Inc.

Product: Graber G-85 Dura-Vue Vertical Blind Headrail System.

Options: (Describe)

Color(s): Selected from Graber Vertical Sample Selector.

Product Description:

G-85 Dura-Vue Headrail Format:

Track shall be roll formed 22-gauge steel with baked on Ivory gloss enamel. The headrail shall measure 1 1/2 inches wide and 1 1/4 inches high.

Carrier body shall be molded nylon with a detachable louver stem molded in clear non-yellowing acetal. Carrier shall traverse on self-lubricated wheels to reduce draw force,

and the louver stem shall be replaceable without demounting the headrail. Carriers are located in the center channel making headrail reversible.

Rotation of louvers shall be provided by pulling a #6 nickel-plated bead chain finished with tassels which rotates a gear assembly in the control housing. This drives an extruded (.300 dia.) aluminum pinion rod passing through all carriers and transmits rotation to each louver stem through a molded rack and pinion gear system. The drive system shall rotate all louvers simultaneously a full 180 degrees and hold them in a fixed position until reset.

Spacing of louvers shall be achieved with a nylon spacer arm integral with carrier body. Visually uniform louver spacing is provided when the blind is fully drawn. In the closed position, louver overlap shall be no less than 3/8-inch.

Traversing shall be by means of a pulley system and a #3 (.094") traverse cord attached to the lead carrier. The self-lubricating cord pulley wheels of the drive-end shall rotate freely on their axles to allow for smooth traversing with a minimum draw force. The traverse cord shall have a minimum tensile strength of 125 pounds and a maximum stretch while in use not to exceed 1%. The cord shall be held down by a cord tension pulley that is attached to the floor, sill or jamb. The center spaced louvers allow one way traverse installations to draw from right or left.

Traversing: Optional headrail may be supplied without traverse cord for non-traversing blind.

Louvers:

Louvers shall be selected from the Graber Vertical Louver Sample Selector. All vertical louvers shall be manufactured to exacting standards to resist fading, twisting and brittleness. Fabric louvers shall contain a bottom weight pocket sewn at the bottom with clear, poly thread. Each pocket shall contain one weight. Standard specification shall be no bottom chain for PVC, aluminum and fabric louvers. Optional specification shall be single bottom chain. Note: Bottom chain not available with fabrics inserted in groover.

Installation Brackets: Shall be provided to support the weight of the blind plus forces applied to operate the blind. Include hardware necessary for secure attachment of brackets to adjoining construction and headrail. Brackets shall be designed to facilitate installation and removal of 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 for Cord Draw/Chain Rotation Controlled Blinds with 3 1/2" Louvers:

Maximum width: 191"

Maximum drop: 144"

5a. Size Limitations with Channel Panel Louvers:

Maximum drop: 120"

5b. Size Limitations with 2" PVC Louvers:

Maximum width: 157 1/4"

Warranty: Manufacturer shall warrant finished headrail against defects in materials and

workmanship for a period of ten (10) years. Finished louvers shall be warranted against defects in materials and workmanship for a period of three (3) years. Painted finishes shall be warranted to maintained gloss and resist peeling, fading and chalking for a period of three (3) years.

2.02 FABRICATION

Prior to fabrication, verify actual opening dimensions by on-site measurements. 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 installation procedure except as otherwise specified herein.

Install all brackets provided to prevent deflection in headrail.

Install blinds with adequate clearance to permit smooth operation of blinds and any sash operators. Hold blinds 1/8-inch clear from each side of window opening on inside mount unless other clearance is indicated.

Demonstrate blinds to be in smooth, uniform working order.

Store installed blinds in fully stacked position to avoid damage and accumulation of dust and dirt until such time that these conditions are eliminated.

3.03 CLEANING

If solid vinyl or aluminum louvers become soiled, wipe or sponge using a mild detergent and warm water solution. With fabric louvers, dust or vacuum with an upholstery attachment, for soil removal, sponge using a mild detergent and warm water solution (or a dry fabric cleaner) and blot dry. Do not immerse in water or dry clean.

3.04 VERTICAL BLIND SCHEDULE:

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

GRABER® G-85 DURA-VUE® ONE-TOUCH™ HEADRAIL

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 samples of louver material indicating full color range and color variation.

Product Sample: Submit one 16-inch wide fully functional vertical headrail.

Maintenance Material (Extra Stock): (Describe).

PART 2– PRODUCTS

2.01 VERTICAL BLINDS

Manufacturer and Product:

Manufacturer: Springs Window Fashions Division, Inc.

Product: Graber G-85 Dura-Vue One-Touch Vertical Blind Headrail System.

Options: (Describe)

Color(s): Selected from Graber Vertical Sample Selector.

Product Description:

G-85 Dura-Vue® One-Touch Headrail Format:

Headrail shall be roll formed 22-gauge steel with baked on Ivory gloss enamel. The headrail shall measure 1 1/2 inches wide and 1 1/4 inches high.

Carrier body shall be molded nylon with a detachable louver stem molded in clear non-yellowing nylon. Carrier shall traverse on wheels which have natural lubricity to reduce

draw force, and the louver stem shall be replaceable without demounting the headrail. Carriers are located in the center of headrail, making headrail reversible.

Rotation of louvers shall be provided by rotating the (5/16" dia.) fiberglass wand which rotates a gear assembly in the control housing. This drives an extruded (.300 dia.) aluminum pinion rod passing through all carriers and transmits rotation to each louver stem through a molded rack and pinion gear system. The drive system shall rotate all louvers simultaneously a full 180 degrees and hold them in a fixed position until reset.

Spacing of louvers shall be achieved with a nylon spacer arm integral with carrier body. Visually uniform louver spacing is provided when the blind is fully drawn. In the closed position, louver overlap shall be no less than 3/8-inch.

Traversing shall be by means of sliding the wand control which is attached to the lead carrier.

Wand Length Schedule

Louvers up to 85" long: 33" Wand

Louvers between 85 1/8" and 102": 48" Wand

Louvers between 102 1/8" and 114": 60" Wand

Custom Color: Optional for headrail matched to color chip provided (minimum release quantity required).

Louvers - 3 1/2" Wide Only:

Louvers shall be selected from the Graber Vertical Louver Sample Selector. All vertical louvers shall be manufactured to exacting standards to resist fading, twisting and brittleness. Fabric louvers shall contain a bottom weight pocket sewn at the bottom with clear, poly thread. Each pocket shall contain one weight. Standard specification shall be no bottom chain for PVC, aluminum and fabric louvers. Optional specification shall be single bottom chain. Note: Bottom chain not available with fabrics inserted in groover.

Sewn-in Weight: Bottom weight is enclosed in pocket of fabric louver by sewing on three sides.

Installation Brackets: Shall be provided to support the weight of the blind plus forces applied to operate the blind. Include hardware necessary for secure attachment of brackets to adjoining construction and headrail. Brackets shall be designed to facilitate installation and removal of 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: Overall maximum size: 70 square feet

Maximum width: 156" with a maximum drop of 64 1/2"

Maximum drop: 114" with a maximum width of 88"

Louver width: 3 1/2"

Warranty: Manufacturer shall warrant finished headrail against defects in materials and

workmanship for a period of ten (10) years. Finished louvers shall be warranted against defects in materials and workmanship for a period of three (3) years. Painted finishes shall be warranted to maintained gloss and resist peeling, fading and chalking for a period of three (3) years.

2.02 FABRICATION

Prior to fabrication, verify actual opening dimensions by on-site measurements. 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" minimum. 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 installation procedure except as otherwise specified herein.

Install all brackets provided to prevent deflection in headrail.

Install blinds with adequate clearance to permit smooth operation of blinds and any sash operators. Hold blinds 1/8-inch clear from each side of window opening on inside mount unless other clearance is indicated.

Demonstrate blinds to be in smooth, uniform working order.

Store installed blinds in fully stacked position to avoid damage and accumulation of dust and dirt until such time that these conditions are eliminated.

3.03 CLEANING

If solid vinyl or aluminum louvers become soiled, wipe or sponge using a mild detergent and warm water solution. With fabric louvers, dust or vacuum with an upholstery attachment, for soil removal, sponge using a mild detergent and warm water solution (or a dry fabric cleaner) and blot dry. Do not immerse in water or dry clean.

3.04 VERTICAL BLIND SCHEDULE:

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

GRABER® GRABERLITE® HEADRAIL

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 samples of louver material indicating full color range and color variation.

Product Sample: Submit one 16-inch wide by 24-inch long fully functional vertical headrail.

Maintenance Material (Extra Stock): (Describe).

PART 2– PRODUCTS

2.01 VERTICAL BLINDS

Manufacturer and Product:

Manufacturer: Springs Window Fashions Division, Inc.

Product: Graber GraberLite Vertical Blind Headrail System.

Options: (Describe)

Color(s): Selected from Graber Vertical Sample Selector.

Product Description:

GraberLite Headrail Format:

Headrail shall measure 1 3/8 inches in width and 1 1/4 inches in height, with an average wall thickness of 0.050-inch and be made of satin finish anodized aluminum alloy 6063-T5.

Carrier body shall be molded nylon with a detachable louver stem molded in clear non-

yellowing acetal. Carrier shall traverse on self-lubricated wheels to reduce draw force, and the louver stem shall be replaceable without demounting the headrail. Carriers are located in the center channel, making headrail reversible.

Rotation of louvers shall be provided by pulling a #6 nickel-plated bead chain finished with tassels which rotates a gear assembly in the control housing. This drives an extruded (.300 dia.) aluminum pinion rod passing through all carriers and transmits rotation to each louver stem through a molded rack and pinion gear system. The drive system shall rotate all louvers simultaneously a full 180 degrees and hold them in a fixed position until reset.

Spacing of louvers shall be achieved with a nylon spacer arm integral with carrier body. Visually uniform louver spacing is provided when the blind is fully drawn. In the closed position, louver overlap shall be no less than 3/8-inch.

Traversing shall be by means of a pulley system and a #3 (.094") traverse cord attached to the lead carrier. The self-lubricating cord pulley wheels of the drive-end shall rotate freely on their axles to allow for smooth traversing with a minimum draw force. The traverse cord shall have a minimum tensile strength of 125 pounds and a maximum stretch while in use not to exceed 1%. The cord shall be held down by a cord tension pulley that is attached to the floor, sill or jamb. The center spaced louvers allow one way traverse installations to draw from right or left.

Custom Color: Optional for headrail matched to color chip provided (minimum release quantity required).

Traversing: Optional headrail may be supplied without traverse cord for non-traversing blind.

Louvers:

Louvers shall be selected from the Graber Vertical Louver Sample Selector. All vertical louvers shall be manufactured to exacting standards to resist fading, twisting and brittleness. Fabric louvers shall contain a bottom weight pocket sewn at the bottom with clear, poly thread. Each pocket shall contain one weight. Standard specification shall be no bottom chain for PVC, aluminum and fabric louvers. Optional specification shall be single bottom chain. Note: Bottom chain not available with fabrics inserted in groover.

Installation Brackets: Shall be provided to support the weight of the blind plus forces applied to operate the blind. Include hardware necessary for secure attachment of brackets to adjoining construction and headrail. Brackets shall be designed to facilitate installation and removal of 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 for Cord Draw/Chain Rotation Controlled Blinds with 3 1/2" Louvers:

Maximum width: 191"

Maximum drop: 144"

5a. Size Limitations with Channel Panel Louvers:

Maximum drop: 120"

5b. Size Limitations with 2" PVC Louvers:

Maximum width: 157 1/4"

Warranty: Manufacturer shall warrant finished headrail against defects in materials and workmanship for a period of ten (10) years. Finished louvers shall be warranted against defects in materials and workmanship for a period of three (3) years. Painted finishes shall be warranted to maintained gloss and resist peeling, fading and chalking for a period of three (3) years.

2.02 FABRICATION

Prior to fabrication, verify actual opening dimensions by on-site measurements. 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 installation procedure except as otherwise specified herein.

Install all brackets provided to prevent deflection in headrail.

Install blinds with adequate clearance to permit smooth operation of blinds and any sash operators. Hold blinds 1/8-inch clear from each side of window opening on inside mount unless other clearance is indicated.

Demonstrate blinds to be in smooth, uniform working order.

Store installed blinds in fully stacked position to avoid damage and accumulation of dust and dirt until such time that these conditions are eliminated.

3.03 CLEANING

If solid vinyl or aluminum louvers become soiled, wipe or sponge using a mild detergent and warm water solution. With fabric louvers, dust or vacuum with an upholstery attachment, for soil removal, sponge using a mild detergent and warm water solution (or a dry fabric cleaner) and blot dry. Do not immerse in water or dry clean.

3.04 VERTICAL BLIND SCHEDULE:

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

GRABER® GRABERLITE® ONE-TOUCH™ HEADRAIL

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 samples of louver material indicating full color range and color variation.

Product Sample: Submit one 16-inch wide fully functional vertical headrail.

Maintenance Material (Extra Stock): (Describe).

PART 2– PRODUCTS

2.01 VERTICAL BLINDS

Manufacturer and Product:

Manufacturer: Springs Window Fashions Division, Inc.

Product: Graber GraberLite One-Touch Vertical Blind Headrail System.

Options: (Describe)

Color(s): Selected from Graber Vertical Sample Selector.

Product Description:

GraberLite® One-Touch Headrail Format:

Headrail shall be extruded anodized aluminum with a .050 wall thickness. The headrail shall measure 1 3/8" wide and 1 5/16" high.

Carrier body shall be molded nylon with a detachable louver stem molded in clear non-yellowing nylon. Carrier shall traverse on wheels which have natural lubricity to reduce draw force, and the louver stem shall be replaceable without demounting the headrail.

Carriers are located in the center of headrail, making headrail reversible.

Rotation of louvers shall be provided by rotating the (5/16" dia.) fiberglass wand which rotates a gear assembly in the control housing. This drives an extruded (.300 dia.) aluminum pinion rod passing through all carriers and transmits rotation to each louver stem through a molded rack and pinion gear system. The drive system shall rotate all louvers simultaneously a full 180 degrees and hold them in a fixed position until reset.

Spacing of louvers shall be achieved with a nylon spacer arm integral with carrier body. Visually uniform louver spacing is provided when the blind is fully drawn. In the closed position, louver overlap shall be no less than 3/8-inch.

Traversing shall be by means of sliding the wand control which is attached to the lead carrier.

Wand Length Schedule

Louvers up to 85" long: 33" Wand

Louvers between 85 1/8" and 102": 48" Wand

Louvers between 102 1/8" and 114": 60" Wand

Custom Color: Optional for headrail matched to color chip provided (minimum release quantity required).

Louvers - 3 1/2" Wide Only:

Louvers shall be selected from the Graber Vertical Louver Sample Selector. All vertical louvers shall be manufactured to exacting standards to resist fading, twisting and brittleness. Fabric louvers shall contain a bottom weight pocket sewn at the bottom with clear, poly thread. Each pocket shall contain one weight. Standard specification shall be no bottom chain for PVC, aluminum and fabric louvers. Optional specification shall be single bottom chain. Note: Bottom chain not available with fabrics inserted in groover.

Sewn-in Weight: Bottom weight is enclosed in pocket of fabric louver by sewing on three sides.

Installation Brackets: Shall be provided to support the weight of the blind plus forces applied to operate the blind. Include hardware necessary for secure attachment of brackets to adjoining construction and headrail. Brackets shall be designed to facilitate installation and removal of 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: Overall maximum size: 70 square feet

Maximum width: 156" with a maximum drop of 64 1/2" drop

Maximum drop: 114" with a maximum width of 88" width. Maximum drop of 114" includes sill height in overall measurements.

Louver width: 3 1/2"

Warranty: Manufacturer shall warrant finished headrail against defects in materials and

workmanship for a period of ten (10) years. Finished louvers shall be warranted against defects in materials and workmanship for a period of three (3) years.

2.02 FABRICATION

Prior to fabrication, verify actual opening dimensions by on-site measurements. 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" minimum. 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 installation procedure except as otherwise specified herein.

Install all brackets provided to prevent deflection in headrail.

Install blinds with adequate clearance to permit smooth operation of blinds and any sash operators. Hold blinds 1/8-inch clear from each side of window opening on inside mount unless other clearance is indicated.

Demonstrate blinds to be in smooth, uniform working order.

Store installed blinds in fully stacked position to avoid damage and accumulation of dust and dirt until such time that these conditions are eliminated.

3.03 CLEANING

If solid vinyl or aluminum louvers become soiled, wipe or sponge using a mild detergent and warm water solution. With fabric louvers, dust or vacuum with an upholstery attachment, for soil removal, sponge using a mild detergent and warm water solution (or a dry fabric cleaner) and blot dry. Do not immerse in water or dry clean.

3.04 VERTICAL BLIND SCHEDULE:

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

GRABER GRANDEUR™ 2" VINYL 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 2-INCH HORIZONTAL BLINDS

Manufacturer and Product:

Manufacturer: Springs Window Fashions Division, Inc.

Product: Graber Grandeur™ 2" Horizontal Blind.

Options: (Describe)

Color(s): Selected from Graber color standards.

Product Description:

SureClose™ Headrail: "U"-shaped 1 1/2-inch high by 2 1/4-inch 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 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: 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 Foam PVC Bottomrail: White foam PVC bottomrail 7/16" high by 1 3/8" wide. Top surface is crowned to match the slat profile.

Slats: Rigid, UV stabilized crowned PVC, nominally 2" wide and .045" thick. Slat edges are straight cut.

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) 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-inch 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 18 inches.

Braided Ladder Material: Material shall be 100% high tenacity polyester yarn. Vertical component shall be not less than 0.045-inch nor greater than 0.060-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 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 Graber color standard.

Cloth Tapes: (Slat supports) an optional cloth tape shall be available. Material is 1 1/2 inch wide polyester construction. Distance between end tape and end of slats will not exceed 6 inches. Distance between tapes shall not exceed 18 inches. Cloth tapes shall be coordinated to Graber 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 Cords: 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 dyed to Graber color standard.

Cord Lock and Tilter Operation Locations:

Graber 2" Horizontal 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 18 1/8 inches wide, 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 adjustable 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 stiffeners 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: 102 inches with 2 blinds on 1 headrail. Maximum single blind slat width is 72 inches.

Maximum drop: 108 inches

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

2.02 FABRICATION

Prior to fabrication, verify actual opening dimensions by on-site measurements. 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).

GRABER LAKE FOREST™ 2" VINYL 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 2-INCH HORIZONTAL BLINDS

Manufacturer and Product:

Manufacturer: Springs Window Fashions Division, Inc.

Product: Graber Lake Forest™ 2" Horizontal Blind.

Options: (Describe)

Color(s): Selected from Graber color standards.

Product Description:

SureClose™ Headrail: "U"-shaped 1 1/2-inch high by 2 1/4-inch 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 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: Metal hardware shall be electroplated with lift cords and ladders guided by acetal low friction thermoplastic grommets in the head channel that prevents 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 Foam PVC Bottomrail: White foam PVC bottomrail 9/16" high by 2" wide.

Slats: Rigid, UV stabilized crowned PVC, nominally 2" wide and .10" thick. Slat edges are straight cut.

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.

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.

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-inch 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 4 inches; distance between braided ladders shall not exceed 11 inches.

Braided Ladder Material: Material shall be 100% high tenacity polyester yarn. Vertical component shall be not less than 0.045-inch nor greater than 0.060-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 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 Graber 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 dyed to Graber color standard.

Cord Lock and Tilter Operation Locations:

Graber 2" Horizontal 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).

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.

Extension Brackets: Optional adjustable 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 stiffeners 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: 96 inches with 2 blinds on 1 headrail. Maximum single blind slat width is 72 inches.

Maximum drop: 120 inches

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

2.02 FABRICATION

Prior to fabrication, verify actual opening dimensions by on-site measurements. 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).