

# Sundance

Window Coverings

## SECTION 12490

### WINDOW TREATMENTS

Display hidden notes to specifier by using "Tools"/"Options"/"View"/"Hidden Text".

#### PART 1 GENERAL

##### 1.1 SECTION INCLUDES

- A. Window Treatments.

##### 1.2 RELATED SECTIONS

- A. Section 08500 - Windows: Windows scheduled to receive window treatments.
- B. Section 06200 - Finish Carpentry: Casework and molding adjacent to windows and window treatments.

##### 1.3 REFERENCES

- A. ASTM A 228 - Standard Specification for Steel Wire, Music Spring Quality.
- B. ASTM A 666 Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar.
- C. ASTM A 1008 - Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, Solution Hardened, and Bake Hardenable.
- D. ASTM A 1010 - Standard Specification for Higher-Strength Martensitic Stainless Steel Plate, Sheet and Strip.

##### 1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
  - 1. Preparation instructions and recommendations.
  - 2. Storage and handling requirements and recommendations.
  - 3. Installation methods.
- C. Shop Drawings: Submit manufacturer's shop drawings depicting all relevant product information.
- D. Selection Samples: For each finish product specified, two samples representing manufacturer's full range of available colors, materials and patterns.
- E. Verification Samples: For each finish product specified, two full-size samples, representing actual product, color, material and pattern.

##### 1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Products listed in this section shall be provided by a single manufacturer with at least ten (10) years experience in manufacturing window treatments.
- B. Installer Qualifications: Products listed in this section shall be installed by a single organization capable of demonstrating at least five (5) years experience successfully installing window treatments on projects of similar type and scope as specified in this section.
- C. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
  - 1. Finish areas designated by Architect.
  - 2. Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect.
  - 3. Refinish mock-up area as required to produce acceptable work.

#### 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

#### 1.7 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

#### 1.8 WARRANTY

- A. At project closeout, provide to the owner or owners representative a copy of the manufacturer's document outlining the terms and conditions of their limited warranty against manufacturing defect.

### PART 2 PRODUCTS

#### 2.1 MANUFACTURERS

- A. Acceptable Manufacturer: RollEase, Inc., which is located at: 200 Harvard Ave. ; Stamford, CT 06902-6320; Toll Free Tel: 800-552-5100; Tel: 203-964-1573; Fax: 203-964-0513; Email: [sales@rollease.com](mailto:sales@rollease.com) ; Web: [www.rollease.com](http://www.rollease.com)
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

#### 2.2 MATERIALS

- A. Fascia: 0.062 inch (1.6mm) extruded 6063/T-5 aluminum alloy.
- B. Interior Brackets: 0.07 inch (1.8mm) ASTM A 1008/1010 cold rolled steel.
- C. Exterior Brackets: 0.07 inch (1.8mm) ASTM A 666 stainless steel.
- D. Springs: ASTM A 228 Stress Relieved High Carbon Steel.

## 2.3 CONTRACT SERIES SHADE SYSTEMS

- A. 3 Inch (76mm) Fascia and Pockets:
  - 1. R-Series Clutch Brackets.
    - a. Clutch Type: R-3; Maximum Weight: 3 Lbs (1.4kg).
    - b. Clutch Type: R-8; Maximum Weight: 8 Lbs (3.6kg).
  - 2. Control Device: Polyester cord.
    - a. Color: Vanilla.
    - b. Color: White.
    - c. Color: Ivory.
    - d. Color: Peach Cobbler.
    - e. Color: Light Pink.
    - f. Color: Pink.
    - g. Color: Raw Umber.
    - h. Color: Light Mauve.
    - i. Color: Aspen Green.
    - j. Color: Blue Ice.
    - k. Color: Blue Spray.
    - l. Color: Dawn Blue.
    - m. Color: Squirrel Grey.
    - n. Color: Cocoa.
  - 3. Control Device: Metal bead chain.
    - a. Finish: Nickel-plated Steel.
    - b. Finish: Nickel Plated Brass.
    - c. Finish: Brass.
    - d. Finish: Antique Brown.
    - e. Finish: Stainless Steel.
  - 4. Control Device: Plastic bead chain.
    - a. Color: Vanilla.
    - b. Color: White.
    - c. Color: Black.
    - d. Color: Gray.
    - e. Color: Clear.
  - 5. Control Device: Continuous loop plastic bead chain.
    - a. Color: White.
    - b. Color: Black.
    - c. Color: Vanilla.
    - d. Color: Clear.
  - 6. Sunscreen Fabric: ShearWeave 2000.
    - a. Tube Size / Maximum Drop: 1 1/4 inch (32mm) / 168 inches (4267mm).
    - b. Tube Size / Maximum Drop: 1 1/2 inch (38mm) / 144 inches (3658mm).
  - 7. Sunscreen Fabric: ShearWeave 4000.
    - a. Tube Size / Maximum Drop: 1 1/4 inch (32mm) / 84 inches (2134mm).
    - b. Tube Size / Maximum Drop: 1 1/2 inch (38mm) / 72 inches (1829mm).
  - 8. 2 inch (51mm) Tube Adapters.
  - 9. 3 inch (76mm) Clutch and End Plug Fascia Brackets.
  - 10. 3 inch (76mm) Pocket, End Plate, and Closure.
- B. 4 Inch (102mm) Fascia, Pockets and Blackout:
  - 1. R-Series Clutch Brackets.
    - a. Clutch Type: R-8; Maximum Weight: 8 Lbs (3.6kg).
    - b. Clutch Type: R-16; Maximum Weight: 16 Lbs (7.3kg).
    - c. Clutch Type: R-24; Maximum Weight: 24 Lbs (10.9kg).
    - d. Clutch Type: Spring Assist; Maximum Weight: 30 Lbs (13.6kg).
  - 2. Control Device: Polyester cord.
    - a. Color: Vanilla.

- b. Color: White.
  - c. Color: Ivory.
  - d. Color: Peach Cobbler.
  - e. Color: Light Pink.
  - f. Color: Pink.
  - g. Color: Raw Umber.
  - h. Color: Light Mauve.
  - i. Color: Aspen Green.
  - j. Color: Blue Ice.
  - k. Color: Blue Spray.
  - l. Color: Dawn Blue.
  - m. Color: Squirrel Grey.
  - n. Color: Cocoa.
3. Control Device: Metal bead chain.
    - a. Finish: Nickel-plated Steel.
    - b. Finish: Nickel Plated Brass.
    - c. Finish: Brass.
    - d. Finish: Antique Brown.
    - e. Finish: Stainless Steel.
  4. Control Device: Plastic bead chain.
    - a. Color: Vanilla.
    - b. Color: White.
    - c. Color: Black.
    - d. Color: Gray.
    - e. Color: Clear.
  5. Control Device: Continuous loop plastic bead chain.
    - a. Color: White.
    - b. Color: Black.
    - c. Color: Vanilla.
    - d. Color: Clear.
  6. Sunscreen Fabric: ShearWeave 2000.
    - a. Tube Size / Maximum Drop: 1 1/4 inch (32mm) / Over 192 inches (4877mm).
    - b. Tube Size / Maximum Drop: 1 1/2 inch (38mm) / Over 192 inches (4877mm).
  7. Sunscreen Fabric: ShearWeave 4000.
    - a. Tube Size / Maximum Drop: 1 1/4 inch (32mm) / 180 inches (4572mm).
    - b. Tube Size / Maximum Drop: 1 1/2 inch (38mm) / 144 inches (3658mm).
  8. 2 inch (51mm) Tube Adapters.
  9. Clutch and End Plug Fascia Brackets.
  10. 3 inch (76mm) Pocket, End Plate, and Closure.
  11. Blackout Side and Bottom Channels.

## 2.4 ROLLER SHADE SYSTEMS

- A. Clutch Type: R-3: Manually-operated mechanism for raising and lowering all types of roller shades. Pulling on a control cord or bead chain at one end of the shade, precisely positions any shade weighing up to 30 pounds (13.6 kg). The system can be specified with either left-hand or right-hand control. An optional fascia panel hides the roller.
  1. Maximum Weight: 3 Lbs (1.4kg).
  2. Tube Size / Maximum Width: 1 inch (25mm) / 60 inches (1524mm).
  3. Tube Size / Maximum Width: 1 1/8 inch (29mm) / 84 inches (2134mm).
  4. Control Device: D-30 Polyester cord.
    - a. Color: Vanilla.
    - b. Color: White.

- c. Color: Ivory.
  - d. Color: Peach Cobbler.
  - e. Color: Light Pink.
  - f. Color: Pink.
  - g. Color: Raw Umber.
  - h. Color: Light Mauve.
  - i. Color: Aspen Green.
  - j. Color: Blue Ice.
  - k. Color: Blue Spray.
  - l. Color: Dawn Blue.
  - m. Color: Squirrel Grey.
  - n. Color: Cocoa.
- 5. Control Device: Metal bead chain.
    - a. Finish: Nickel-plated Steel.
    - b. Finish: Nickel Plated Brass.
    - c. Finish: Brass.
    - d. Finish: Antique Brown.
    - e. Finish: Stainless Steel.
  - 6. Control Device: Plastic bead chain.
    - a. Color: White.
    - b. Color: Black.
    - c. Color: Vanilla.
    - d. Color: Clear.
  - 7. Control Device: Continuous loop plastic bead chain.
    - a. Color: White.
    - b. Color: Black.
    - c. Color: Vanilla.
    - d. Color: Clear.

B. Clutch Type: R-8: Manually-operated mechanism for raising and lowering all types of roller shades. Pulling on a control cord or bead chain at one end of the shade, precisely positions any shade weighing up to 30 pounds (13.6 kg). The system can be specified with either left-hand or right-hand control. An optional fascia panel hides the roller.

- 1. Maximum Weight: 8 Lbs (3.6kg).
- 2. Tube Size / Maximum Width: 1 inch (25mm) / 60 inches (1524mm).
- 3. Tube Size / Maximum Width: 1 1/8 inch (29mm) / 84 inches (2134mm).
- 4. Tube Size / Maximum Width: 1 1/4 inch (32mm) / 114 inches (2896mm).
- 5. Tube Size / Maximum Width: 1 1/2 inch (38mm) / 132 inches (3353mm).
- 6. Control Device: D-30 Polyester cord.
  - a. Color: Vanilla.
  - b. Color: White.
  - c. Color: Ivory.
  - d. Color: Peach Cobbler.
  - e. Color: Light Pink.
  - f. Color: Pink.
  - g. Color: Raw Umber.
  - h. Color: Light Mauve.
  - i. Color: Aspen Green.
  - j. Color: Blue Ice.
  - k. Color: Blue Spray.
  - l. Color: Dawn Blue.
  - m. Color: Squirrel Grey.
  - n. Color: Cocoa.
- 7. Control Device: Metal bead chain.
  - a. Finish: Nickel-plated Steel.

- b. Finish: Nickel Plated Brass.
    - c. Finish: Brass.
    - d. Finish: Antique Brown.
    - e. Finish: Stainless Steel.
  - 8. Control Device: Plastic bead chain.
    - a. Color: Vanilla.
    - b. Color: White.
    - c. Color: Black.
    - d. Color: Gray.
    - e. Color: Clear.
  - 9. Control Device: Continuous loop plastic bead chain.
    - a. Color: White.
    - b. Color: Black.
    - c. Color: Vanilla.
    - d. Color: Clear.
  - 10. Included Bracket Covers.
- C. Clutch Type: R-16: Manually-operated mechanism for raising and lowering all types of roller shades. Pulling on a control cord or bead chain at one end of the shade, precisely positions any shade weighing up to 30 pounds (13.6 kg). The system can be specified with either left-hand or right-hand control. An optional fascia panel hides the roller.
  - 1. Maximum Weight: 16 Lbs (7.3kg).
  - 2. Maximum Weight: 12 Lbs (5.4kg).
  - 3. Tube Size / Maximum Width: 1 1/2 inch (38mm) / 132 inches (3353mm).
  - 4. Tube Size / Maximum Width: 2 inch (51mm) / 168 inches (4267mm).
  - 5. Control Device: Metal bead chain.
    - a. Finish: Nickel-plated Steel.
    - b. Finish: Nickel Plated Brass.
    - c. Finish: Brass.
    - d. Finish: Antique Brown.
    - e. Finish: Stainless Steel.
  - 6. Control Device: Plastic bead chain.
    - a. Color: White.
    - b. Color: Black.
    - c. Color: Vanilla.
    - d. Color: Clear.
  - 7. Control Device: Continuous loop plastic bead chain.
    - a. Color: White.
    - b. Color: Black.
    - c. Color: Vanilla.
    - d. Color: Clear.
  - 8. Included Fascia Cover Option.
- D. Clutch Type: R-24: Manually-operated mechanism for raising and lowering all types of roller shades. Pulling on a control cord or bead chain at one end of the shade, precisely positions any shade weighing up to 30 pounds (13.6 kg). The system can be specified with either left-hand or right-hand control. An optional fascia panel hides the roller.
  - 1. Maximum Weight: 24 Lbs (10.9kg).
  - 2. Maximum Weight: 18 Lbs (8.2kg).
  - 3. Tube Size / Maximum Width: 1 1/2 inch (38mm) / 132 inches (3353mm).
  - 4. Tube Size / Maximum Width: 2 inch (51mm) / 168 inches (4267mm).
  - 5. Control Device: Metal bead chain.
    - a. Finish: Nickel-plated Steel.
    - b. Finish: Nickel Plated Brass.

- c. Finish: Brass.
  - d. Finish: Antique Brown.
  - e. Finish: Stainless Steel.
  - 6. Control Device: Plastic bead chain.
    - a. Color: White.
    - b. Color: Black.
    - c. Color: Vanilla.
    - d. Color: Clear.
  - 7. Control Device: Continuous loop plastic bead chain.
    - a. Color: White.
    - b. Color: Black.
    - c. Color: Vanilla.
    - d. Color: Clear.
  - 8. Included Fascia Option.
- E. Clutch Type: Spring Assist.
- 1. Maximum Weight: 30 lbs (13.6 kg).
  - 2. Tube Size: 1 1/2 inch (38mm).
  - 3. Tube Size: 2 inch (51mm).
  - 4. Control Device: Metal bead chain.
    - a. Finish: Nickel-plated Steel.
    - b. Finish: Nickel Plated Brass.
    - c. Finish: Brass.
    - d. Finish: Antique Brown.
    - e. Finish: Stainless Steel.
  - 5. Control Device: Plastic bead chain.
    - a. Color: White.
    - b. Color: Black.
    - c. Color: Vanilla.
    - d. Color: Clear.
  - 6. Control Device: Continuous loop plastic bead chain.
    - a. Color: White.
    - b. Color: Black.
    - c. Color: Vanilla.
    - d. Color: Clear.
  - 7. Included Fascia Option.
- F. Clutch Type: Galaxy Series G-100 - Patented Velvetrol spring system provides smooth clutch operating system. Components are made of specially selected, engineering grade resins manufactured to strict tolerances to ensure optimal performance in your application. Compact, sleek appearance and uniform outside dimensions, creates a consistent look on any size shade.
- 1. Tube Size / Maximum Weight: 1 1/2 inch (38mm) / 16 Lbs (7.3kg).
  - 2. Tube Size / Maximum Weight: 2 inch (51mm) / 12 Lbs (5.4kg).
  - 3. Control Device: Metal bead chain.
    - a. Finish: Nickel-plated Steel.
    - b. Finish: Nickel Plated Brass.
    - c. Finish: Brass.
    - d. Finish: Antique Brown.
    - e. Finish: Stainless Steel.
  - 4. Control Device: Plastic bead chain.
    - a. Color: White.
    - b. Color: Black.
    - c. Color: Vanilla.
    - d. Color: Clear.
  - 5. Control Device: Continuous loop plastic bead chain.

- a. Color: White.
  - b. Color: Black.
  - c. Color: Vanilla.
  - d. Color: Clear.
- G. Clutch Type: Galaxy Series G-200 - Patented Velvetrol spring system provides smooth clutch operating system. Components are made of specially selected, engineering grade resins manufactured to strict tolerances to ensure optimal performance in your application. Compact, sleek appearance and uniform outside dimensions, creates a consistent look on any size shade.
- 1. Planetary gear and clutch combination system.
  - 2. Teflon and glass filled nylon polycarbonate components.
  - 3. Tube Size / Maximum Weight: 1 1/2 inch (38mm) / 24 Lbs (10.9kg).
  - 4. Tube Size / Maximum Weight: 2 inch (51mm) / 18 Lbs (8.2kg).
  - 5. Control Device: Metal bead chain.
    - a. Finish: Nickel-plated Steel.
    - b. Finish: Nickel Plated Brass.
    - c. Finish: Brass.
    - d. Finish: Antique Brown.
    - e. Finish: Stainless Steel.
  - 6. Control Device: Plastic bead chain.
    - a. Color: White.
    - b. Color: Black.
    - c. Color: Vanilla.
    - d. Color: Clear.
  - 7. Control Device: Continuous loop plastic bead chain.
    - a. Color: White.
    - b. Color: Black.
    - c. Color: Vanilla.
    - d. Color: Clear.
- H. Clutch Type: Galaxy Series G-300 - Patented Velvetrol spring system provides smooth clutch operating system. Components are made of specially selected, engineering grade resins manufactured to strict tolerances to ensure optimal performance in your application. Compact, sleek appearance and uniform outside dimensions, creates a consistent look on any size shade.
- 1. Planetary gear and spring assisted clutch system.
  - 2. Teflon and glass filled nylon polycarbonate components.
  - 3. Tube Size / Maximum Weight: 1 1/2 inch (38mm) / 30 Lbs (13.6kg).
  - 4. Tube Size / Maximum Weight: 2 inch (51mm) / 22.5 Lbs (10.2kg).
  - 5. Control Device: Metal bead chain.
    - a. Finish: Nickel-plated Steel.
    - b. Finish: Nickel Plated Brass.
    - c. Finish: Brass.
    - d. Finish: Antique Brown.
    - e. Finish: Stainless Steel.
  - 6. Control Device: Plastic bead chain.
    - a. Color: White.
    - b. Color: Black.
    - c. Color: Vanilla.
    - d. Color: Clear.
  - 7. Control Device: Continuous loop plastic bead chain.
    - a. Color: White.
    - b. Color: Black.
    - c. Color: Vanilla.
    - d. Color: Clear.



- I. Clutch Type: Galaxy Series G-400 - Patented Velvetrol spring system provides smooth clutch operating system. Components are made of specially selected, engineering grade resins manufactured to strict tolerances to ensure optimal performance in your application. Compact, sleek appearance and uniform outside dimensions, creates a consistent look on any size shade.
  1. Planetary gear and clutch combination system.
  2. Teflon and glass filled nylon polycarbonate components.
  3. Tube Size / Maximum Weight: 1 1/2 inch (38mm) / 53 Lbs (24kg).
  4. Tube Size / Maximum Weight: 2 inch (50mm) / 40 Lbs (18kg).
  5. Tube Size / Maximum Weight: 2 1/2 inch (63.5mm) / 32 Lbs (14.5kg).
  6. Tube Size / Maximum Weight: 3 inch (76mm) / 26 Lbs (11.8kg).
  7. Control Device: Metal bead chain.
    - a. Finish: Nickel-plated Steel.
    - b. Finish: Nickel Plated Brass.
    - c. Finish: Brass.
    - d. Finish: Antique Brown.
    - e. Finish: Stainless Steel.
  8. Control Device: Plastic bead chain.
    - a. Color: White.
    - b. Color: Black.
    - c. Color: Vanilla.
    - d. Color: Clear.
  9. Control Device: Continuous loop plastic bead chain.
    - a. Color: White.
    - b. Color: Black.
    - c. Color: Vanilla.
    - d. Color: Clear.
  
- J. Spring Assist Shades: Sprung clutch, when pre-rotated to the designated tension, reduces the pull force necessary to raise and lower heavy shades.
  1. Tube Size / Maximum Weight: 1 1/2 inch (38mm) / 30 Lbs (13.6kg).
  2. Tube Size / Maximum Weight: 2 inch (51mm) / 30 Lbs (13.6kg).
  3. Pull Force: Nominal 6 Lbs (2.7kg).
  4. Control Device: Metal bead chain.
    - a. Finish: Nickel-plated Steel.
    - b. Finish: Nickel Plated Brass.
    - c. Finish: Brass.
    - d. Finish: Antique Brown.
    - e. Finish: Stainless Steel.
  5. Control Device: Plastic bead chain.
    - a. Color: White.
    - b. Color: Black.
    - c. Color: Vanilla.
    - d. Color: Clear.
  6. Control Device: Continuous loop plastic bead chain.
    - a. Color: White.
    - b. Color: Black.
    - c. Color: Vanilla.
    - d. Color: Clear.
  
- K. Skyline Collection: coordinated roller shade products with a sleek, curved design and Nylon construction clutch. Cleaner, quieter, stronger and more durable, the Velvetrol control ensures smoother operation particularly on larger shades, providing a 20 percent lower input torque. Universal bracketing and cover system with an available 2-on-1 shared bracket and two styles of double-shade brackets.
  1. Notchless curved fascia system.

2. Notchless square fascia system.
  3. Clutch Type SL-8:
    - a. Tube Size / Maximum Weight: 1 1/8 inch (27,6mm) / 8 Lbs (3.6kg).
    - b. Tube Size / Maximum Weight: 1 1/4 inch (32mm) / 8 Lbs (3.6kg).
  4. Clutch Type SL-12:
    - a. Tube Size / Maximum Weight: 1 1/2 inch (38mm) / 12 Lbs (5.4kg).
  5. Clutch Type SL-16:
    - a. Tube Size / Maximum Weight: 1 1/2 inch (38mm) / 16 Lbs (7.3kg).
  6. Clutch Type SLG-16 (Galaxy Gearing System, smoother pull forces):
    - a. Tube Size / Maximum Weight: 1 1/2 inch (38mm) / 16 Lbs (7.3kg).
  7. Pin-End: Spring Loaded
  8. Brackets: Universal Brackets - No left or right, multiple projections.
  9. Brackets: Double Brackets for two types of shades in one window.
  10. Brackets: Shared Brackets - Two clutches sharing single bracket.
  11. Brackets: Shared Intermediate Brackets - Two pin-ends sharing same bracket.
- L. Fascia System: Shade enclosure system for improving appearance by creating a styled finish look (no notching required).
1. Appearance: 3 inch (76mm) Square Fascia.
  2. Appearance: 3 inch (76mm) Rounded Fascia.
  3. Appearance: 4 inch (102mm) Square Fascia.
- M. Cassette System: Curved shade enclosure system for improving appearance by creating a styled finish look.
1. Cassette 80: Up to 80 inch by 120 inch (2032mm x 3048mm)- with a 12 Mil fabric thickness and a 1 1/4 inch (32mm) tube.
  2. Cassette 80: Up to 80 inch by 90 inch (2032mm x 2286mm) with a 16 Mil fabric thickness and a 1 1/4 inch (32mm) tube.
  3. Cassette 80: Up to 80 inch by 60 inch (2032mm 1524mm) with a 22 Mil fabric thickness and a 1 1/4 inch (32mm) tube.
  4. Cassette 120: Up to 120 inch by 120 inch (3048mm 3048mm) with a 16 Mil fabric thickness and a 1 1/2 inch (38mm) tube.
  5. Cassette 120: Up to 120 inch by 144 inch (3048mm 3658mm) with a 16 Mil fabric thickness and a 2 inch (51mm) tube.
  6. Color: Black.
  7. Color: White.
  8. Color: Vanilla.
  9. Color: Silver / Gray.
  10. Color: Bronze.

## 2.5 WORKROOM SYSTEMS

- A. RollEase Workroom System: Sleek, smooth way to raise grass, woven wood, Roman, Balloon, Austrian, folding screen shades, and all other bottom-up soft treatments. The manually-operated mechanism raises shades evenly, without piles of cords.
1. 3-to-1 mechanical lifting advantage.
  2. No maximum width.
  3. Clutch Type: Slim Clutch.
    - a. Maximum Blind Weight: 15 Lbs (6.8kg).
  4. Clutch Type: Standard Clutch.
    - a. Maximum Blind Weight: 30 Lbs (13.6kg).
  5. Maximum Drop: 12 feet (3658mm).
  6. Control Device: D-30 Polyester cord.
    - a. Color: Vanilla.

- b. Color: White.
  - c. Color: Ivory.
  - d. Color: Peach Cobbler.
  - e. Color: Light Pink.
  - f. Color: Pink.
  - g. Color: Raw Umber.
  - h. Color: Light Mauve.
  - i. Color: Aspen Green.
  - j. Color: Blue Ice.
  - k. Color: Blue Spray.
  - l. Color: Dawn Blue.
  - m. Color: Squirrel Grey.
  - n. Color: Cocoa.
- 7. Control Device: Metal bead chain.
    - a. Finish: Nickel-plated Steel.
    - b. Finish: Nickel Plated Brass.
    - c. Finish: Brass.
    - d. Finish: Antique Brown.
    - e. Finish: Stainless Steel.
  - 8. Control Device: Plastic bead chain.
    - a. Color: White.
    - b. Color: Black.
    - c. Color: Vanilla.
    - d. Color: Clear.
  - 9. Control Device: Continuous loop plastic bead chain.
    - a. Color: White.
    - b. Color: Black.
    - c. Color: Vanilla.
    - d. Color: Clear.
  - 10. Control Location: Left Hand.
  - 11. Control Location: Right Hand.
  - 12. Dark Brown components available (dark woven woods).
- B. No-Sew Roman Bars: Inner rod and outer sleeve system for fast and easy fabrication of Roman Shades. Specially designed clear plastic composite engineered to withstand harsh temperatures, sunlight and damaging UV radiation.
  - C. The Orb: Spring actuated shade leveling device designed to eliminate the need for cord knots for shade leveling.
    - 1. Color: Black.
    - 2. Color: Clear.
  - D. Clutch Covers: Color matched cover to provide a clean finished look and protect the cord pulley from some shade fabrics that may cause fraying.

## 2.6 HEADRAIL SYSTEMS

- A. Versarail Blind System: Manually operated mechanism for raising and lowering pleated, cellular, soft shades and woven wood shades.
  - 1. Headrail Width: 1 inch (25mm).
  - 2. Headrail Width: 1.5 inches (38mm).
  - 3. Maximum Blind Weight: 10 Lbs (4.5kg).
  - 4. Maximum Opening Width: 14 feet (4267mm).
  - 5. Maximum Drop: 12 feet (3658mm).
  - 6. Minimum Edge Distance: 6 inches (152mm).
  - 7. Control Device: D-30 Polyester cord.
    - a. Color: Vanilla.

- b. Color: White.
  - c. Color: Ivory.
  - d. Color: Peach Cobbler.
  - e. Color: Light Pink.
  - f. Color: Pink.
  - g. Color: Raw Umber.
  - h. Color: Light Mauve.
  - i. Color: Aspen Green.
  - j. Color: Blue Ice.
  - k. Color: Blue Spray.
  - l. Color: Dawn Blue.
  - m. Color: Squirrel Grey.
  - n. Color: Cocoa.
- 8. Control Device: Continuous loop plastic bead chain.
    - a. Color: White.
    - b. Color: Black.
    - c. Color: Vanilla.
    - d. Color: Clear.
  - 9. Control Location: Left Hand.
  - 10. Control Location: Right Hand.
- B. TS2 2 inch (51mm) Blind System: Manually operated mechanism for raising and lowering wood, faux wood, cord ladder and wide ladder tape blinds.
- 1. Headrail Width: 2 inches (51mm) for 2 inch slats
  - 2. Maximum Blind Weight: 30 Lbs (13.5kg).
  - 3. Maximum Opening Width: 14 feet (4267mm).
  - 4. Maximum Drop: 12 feet (3658mm).
  - 5. Minimum Edge Distance: 4 inches (102mm).
  - 6. Minimum Edge Distance: 2.75 inches (70mm).
  - 7. Control Device: D-40 Polyester cord.
    - a. Color: White.
    - b. Color: Sand.
    - c. Color: Almond.
    - d. Color: Sand Castle.
    - e. Color: Camel.
    - f. Color: Praline.
    - g. Color: Cocoa
    - h. Color: Dark Bronze.
    - i. Color: Raw Umber.
    - j. Color: Pewter.
    - k. Color: Country Redwood.
    - l. Color: Ponderosa Pine.
  - 8. Control Device: Metal bead chain.
    - a. Finish: Nickel-plated Steel.
    - b. Finish: Nickel Plated Brass.
    - c. Finish: Brass.
    - d. Finish: Antique Brown.
    - e. Finish: Stainless Steel
  - 9. Control Device: Plastic bead chain.
    - a. Color: White.
    - b. Color: Black.
    - c. Color: Vanilla.
    - d. Color: Clear.
  - 10. Control Device: Continuous loop plastic bead chain.
    - a. Color: White.
    - b. Color: Black.

- c. Color: Vanilla.
- d. Color: Clear.
- 11. Control Location: Left Hand.
- 12. Control Location: Right Hand.

## 2.7 SHADE MATERIAL

- A. Shade Cloth: Provided by others to meet the following criteria:
  - 1. Manufacturing: Tensioned prior to heat setting to keep the warp ends straight, minimize weave distortion, and keep the cloth flat. Heat and pressure finished.
  - 2. Thickness: \_\_\_\_\_ mil.
  - 3. Weight: \_\_\_\_\_ oz per square yard.
  - 4. Material: 80 percent reinforced vinyl / 20 percent polyester.
  - 5. Material: 100 percent \_\_\_\_\_.
  - 6. Material: \_\_\_\_ percent \_\_\_\_\_ / \_\_\_\_ percent \_\_\_\_\_.
  - 7. Color: Pantone No. \_\_\_\_\_.
  - 8. Color: Red \_\_\_\_\_ Green: \_\_\_\_\_ Blue: \_\_\_\_\_.
  - 9. Color: As selected by Architect from shade Cloth Supplier's available Color Selections.
  - 10. Light Visibility: \_\_\_\_ percent Visible Light Transmittance.
  - 11. Light Visibility: Blackout - Less that 2 percent Visible Light Transmittance.

## 2.8 MINI AND MICRO BLINDS

- A. RollEase 1 inch (25mm) Horizontal Blind Systems: Mono-control system which raises and lowers the blind and tilts the slats with the same control cord. Can be used in any one-inch horizontal blind that weighs up to 10 lbs. (4.5 kg) and measures up to 12 feet (3658mm) in height.
  - 1. Width: 1 inch (25mm).
  - 2. Maximum Blind Weight: 10 Lbs (4.5kg).
  - 3. Maximum Width: 14 feet (4267mm).
  - 4. Maximum Drop: 12 feet (3658mm).
  - 5. Minimum Edge Distance: 6 inches (152mm).
  - 6. Control Device: D-30 Polyester cord.
    - a. Color: Vanilla.
    - b. Color: White.
    - c. Color: Ivory.
    - d. Color: Peach Cobbler.
    - e. Color: Light Pink.
    - f. Color: Pink.
    - g. Color: Raw Umber.
    - h. Color: Light Mauve.
    - i. Color: Aspen Green.
    - j. Color: Blue Ice.
    - k. Color: Blue Spray.
    - l. Color: Dawn Blue.
    - m. Color: Squirrel Grey.
    - n. Color: Cocoa.
  - 7. Control Device: Continuous loop plastic bead chain.
  - 8. Control Location: Left Hand.
  - 9. Control Location: Right Hand.

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

### 3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

### 3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions.

### 3.4 ADJUSTMENT AND USAGE

- A. Adjust all units prior to project closeout.
- B. At project closeout, demonstrate proper adjustment, usage, cleaning and maintenance procedures to the owner or owner's representative.

### 3.5 PROTECTION

- A. Protect installed products until completion of project.
- B. Replace all damaged components before Substantial Completion.

END OF SECTION