

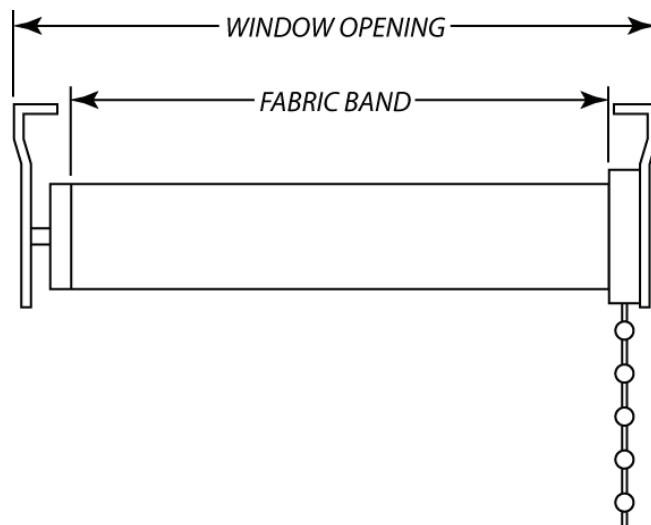
# ROLLER SHADE DETAILS

## MEASURING AND INSTALLATION

### Standard Deductions

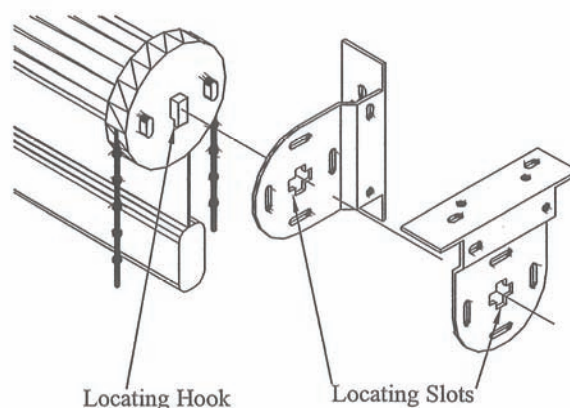
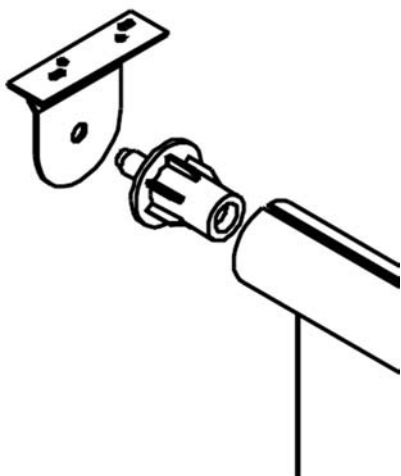
To allow room for the clutch, idle end, and brackets, fabric deductions are necessary but vary based upon options and mounting type selected. Standard fabric deductions are shown below.

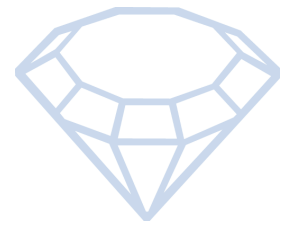
	Fascia	No Fascia
Inside Mount	1.375"	1.25"
Outside Mount	1.25"	1.25"



### Clutch End Bracket

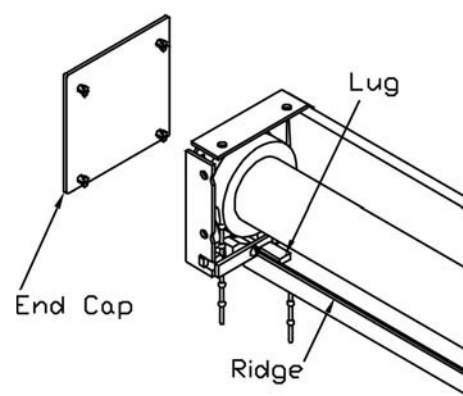
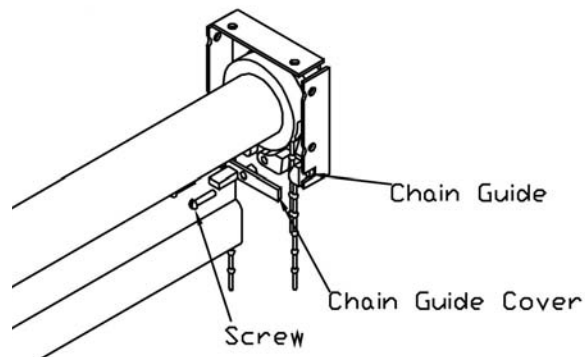
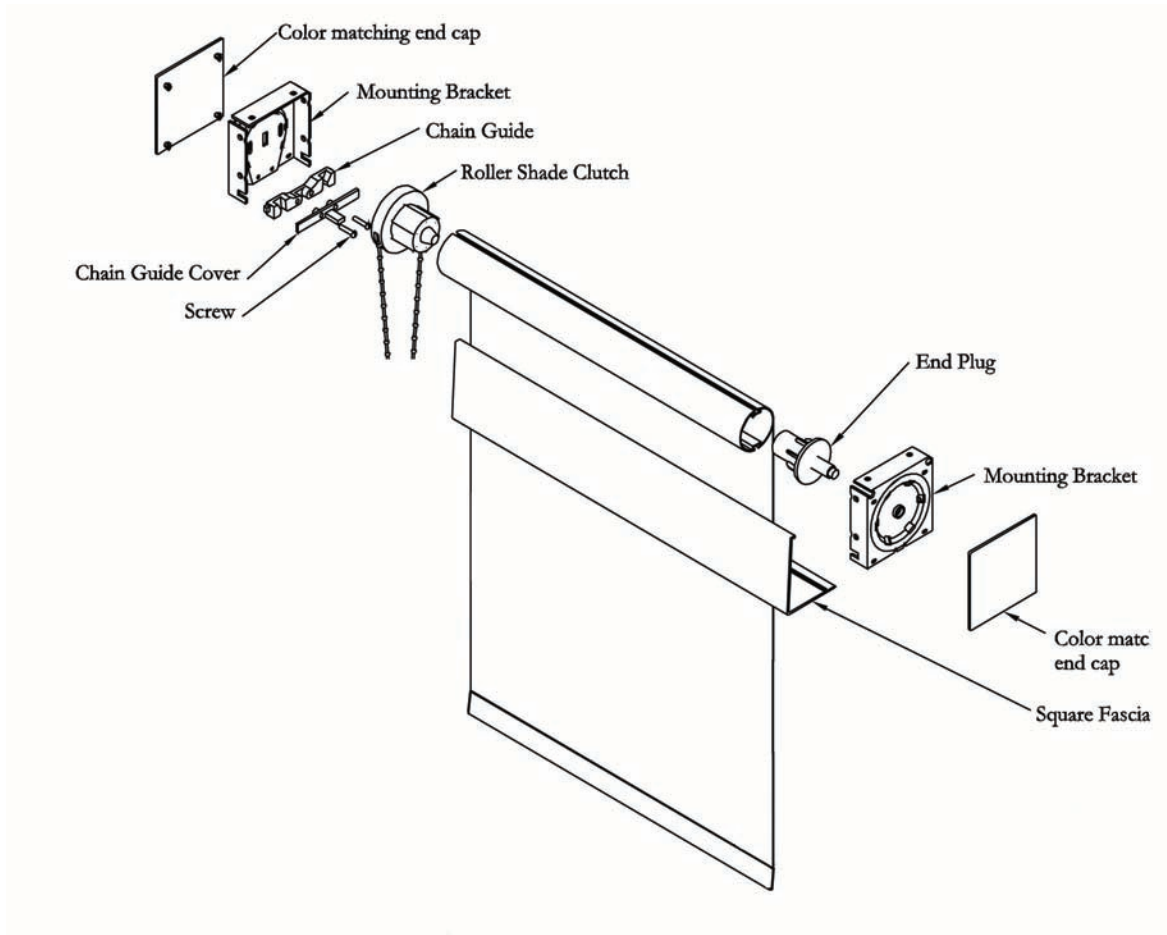
All of the brackets are designed to accommodate wall or ceiling mount. Shown below are the non-fascia brackets for both the clutch and idle ends. Fascia brackets, shown on the next page, mount to the clutch only in one direction but have a lip on 3 sides to easily allow wall or ceiling mount attachment.

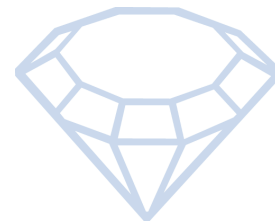




# ROLLER SHADE DETAILS

## ASSEMBLY

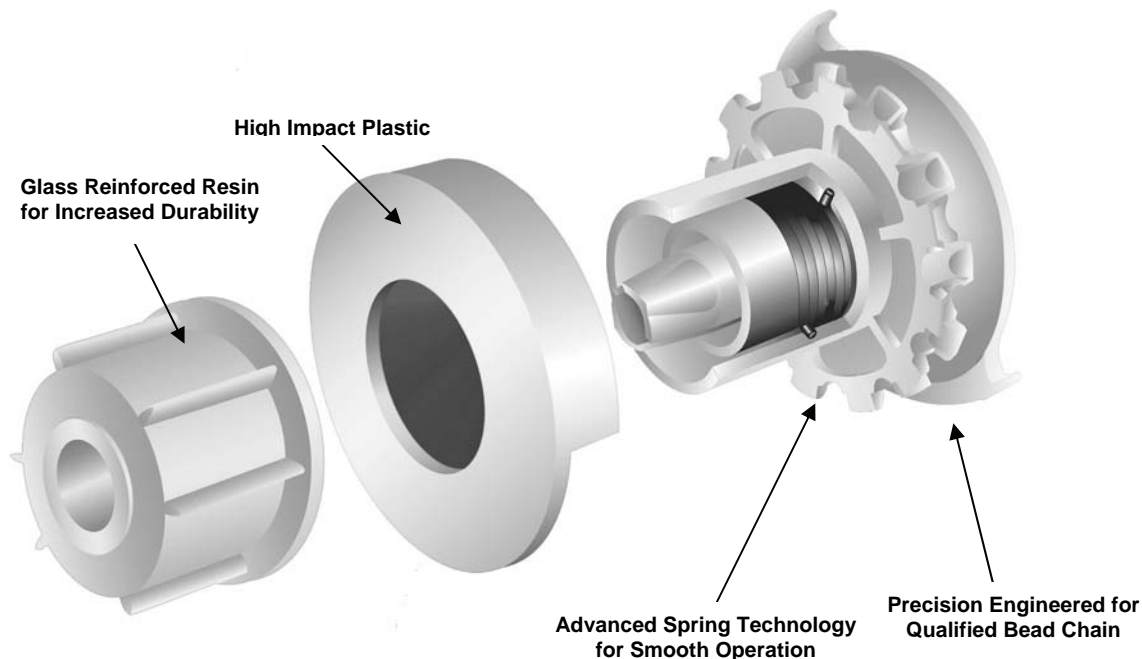




# ROLLER SHADE DETAILS

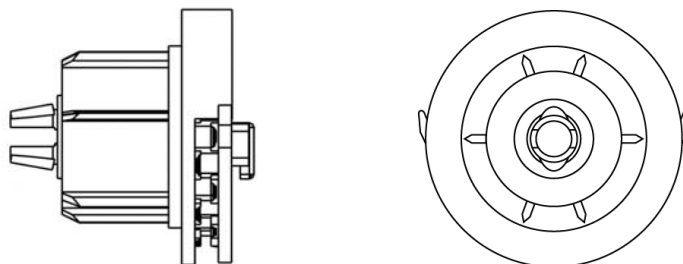
## MANUAL CLUTCHES

### Design



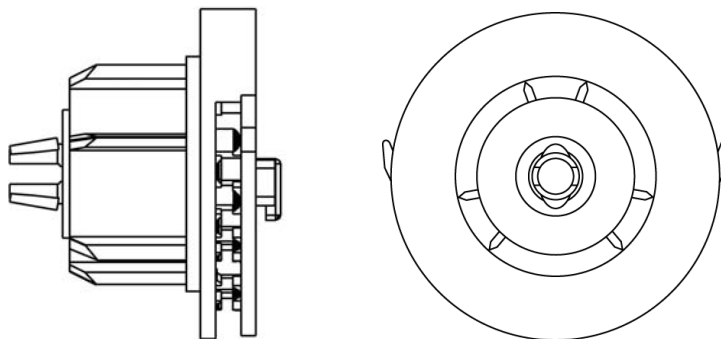
### M16 Clutch

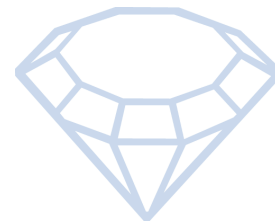
An M16 Clutch is a manual clutch rated at 16 lbs. of lifting force. Designed to fit a 1.5" tube and used with 3" fascia this clutch is very versatile and can accommodate small to medium sized shading systems.



### M24 Clutch

An M24 Clutch is a manual clutch rated at 24 lbs. of lifting force. Designed to fit a 1.75" tube or a 2.5" tube using an adaptor, and used with 4" fascia, this clutch is very versatile and can accommodate medium to large sized shading systems. The HD version of this clutch accommodates a spring assist mechanism for very large and heavy shades.



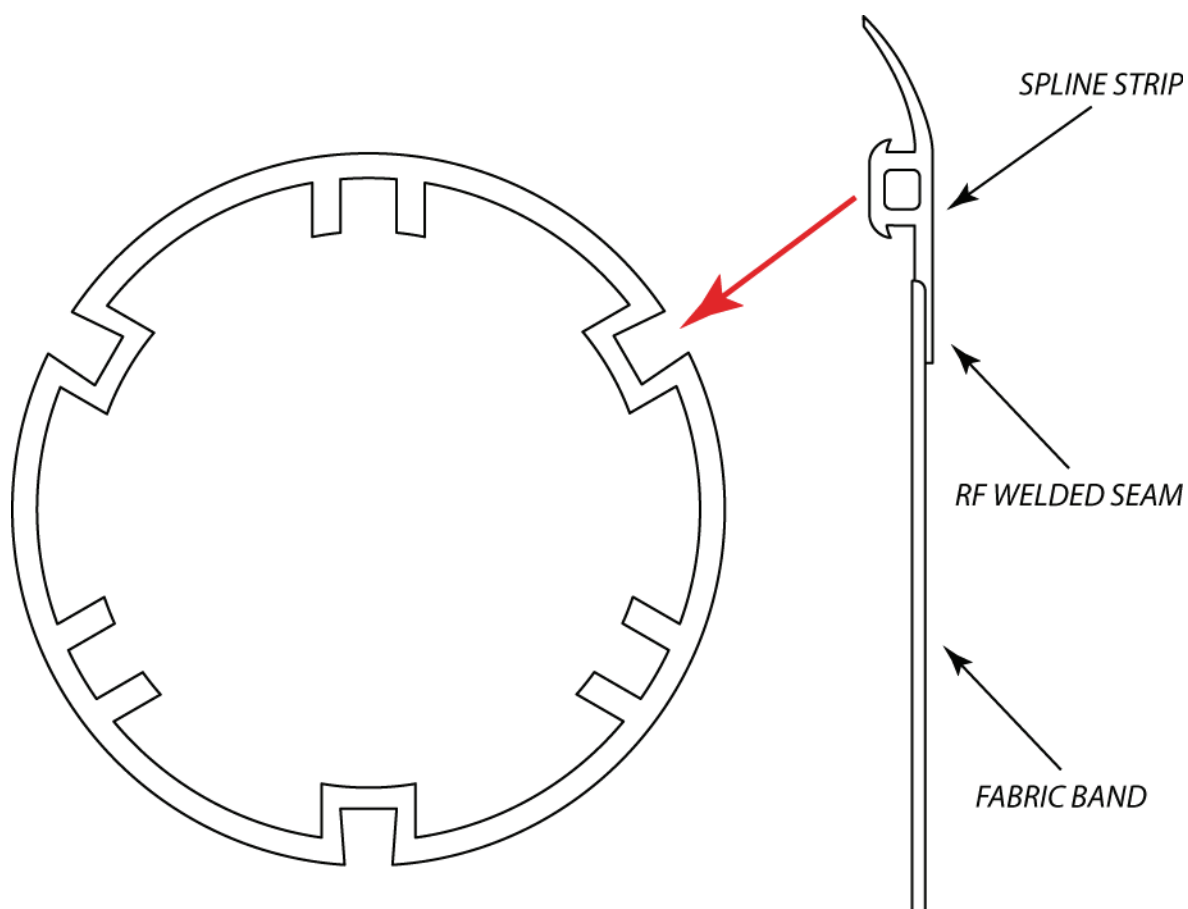


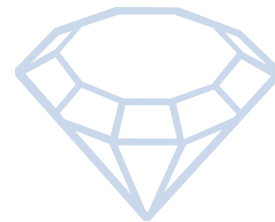
## ROLLER SHADE DETAILS

### *FABRIC ATTACHMENT*

The Splined Fabric Attachment System is a flexible PVC extrusion designed with several purposes in mind.

- This technique was engineered to establish an effective process for securing the shade cloth to the aluminum roller shade tube. Its unique shape and composition lock the shade cloth in place, thus preventing it from falling off the tube, a common problem found when double face tape or glue techniques are applied.
- The spline creates an effective method for keeping the shade cloth straight as it rolls up on the roller shade tube. This system substantially reduces the amount of telescoping (the spiral motion that occurs when a shade is rolling up) that is caused when the shade brackets are installed improperly.
- This spline was developed such that it provides for easy fabric removal and reinstallation. Should the fabric require cleaning or should the customer desire a new shade cloth, the material can be easily removed without having to remove the roller shade tube from its brackets.



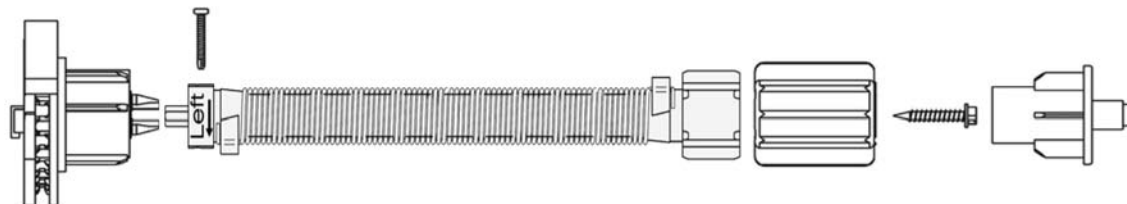


## ROLLER SHADE DETAILS

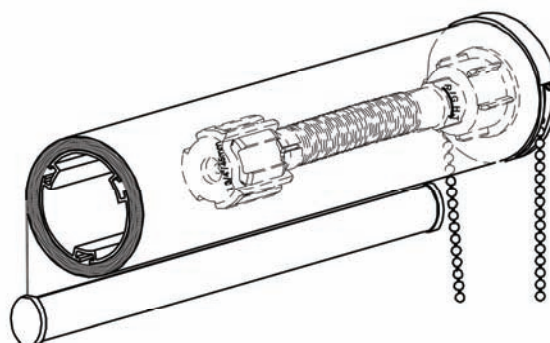
### ***SPRING ASSIST***

Designed for large manual shade applications using 1 3/4" Clutch Systems with 1 3/4" & 2 1/2" aluminum roller tubes

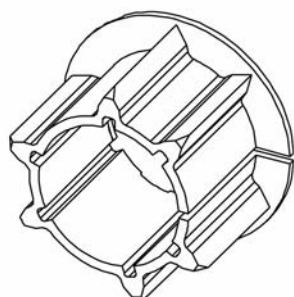
- Available with Left and Right-hand controls
- For both Regular and Reverse Roll shades



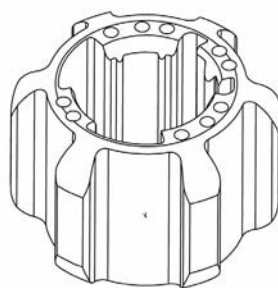
For large shades an optional Spring Assist Clutch Lifting Mechanism is available. Combined with a heavy duty version of the M24 clutch assembly, the Spring Assist allows the operator to lift heavy and oversized shades that exceed 85 square feet. This mechanism is required for very large manual shades, but it can be added to smaller shades, ensuring lift operation with additional ease. The Spring Assist Clutch assembly consists of a heavy-duty wrapped spring that attaches directly to the M24 clutch mechanism by means of a snap-fit and fixing screw.



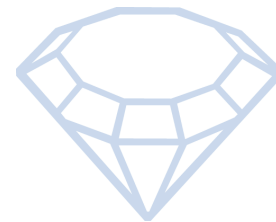
### ***Adaptors***



**Clutch Adaptor for 2 1/2" Tube**



**Spring Adaptor for 2 1/2" Tube**



## ROLLER SHADE DETAILS

### ***DUAL MANUAL SHADES***

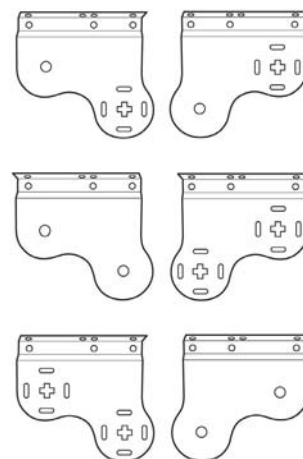
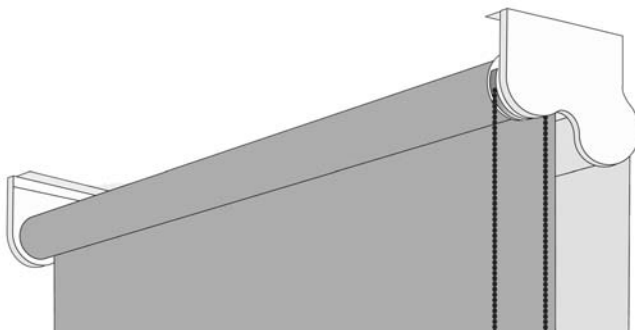
Dual roller shades allow the installation of a sunscreen shade and a blackout shade on a single mounting bracket providing both light filtering and room darkening effectively providing the best of both worlds.

### ***Dual Lite Shade System***

The compact design of our Dual Lite Shade bracket permits two shades to fit in a smaller space than two individual shades installed on the same window. Based upon the 1.5" tube with M16 clutches, the maximum shade size is 96" wide by 96" long and spring assist is not available. Larger shade sizes require our M24 stacked bracketry, M24 standard dual bracketry, or a dual headbox assembly.

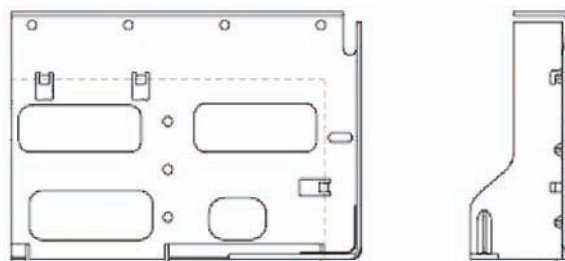
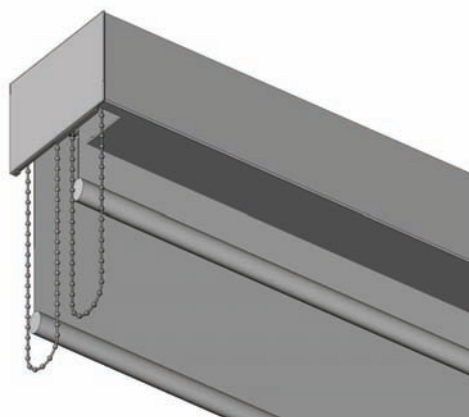
#### **Dual Lite Without Fascia**

For small to medium sized manual shades, bracket size is 4.5" wide by 4.5" long and can be ceiling or wall mounted. Endcaps are optional.



#### **Dual Lite with Fascia**

Bracket size is 5.75" wide by 4" long and accommodates 4" square, 4" round, and fabric wrapped fascias. Endcaps are optional.





# ROLLER SHADE DETAILS

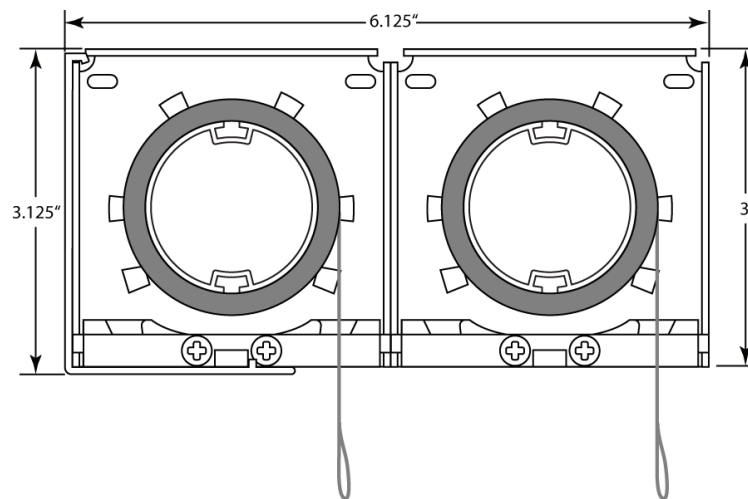
## DUAL MANUAL SHADES

### Dual Stacked Shade System

This method utilizes two standard shades placed one in front of the other. This results in a small frontal profile, but the stacking of the shades pulls the outer shade further from the glass. This system is mainly used in areas where window mullions are 6-8" deep.

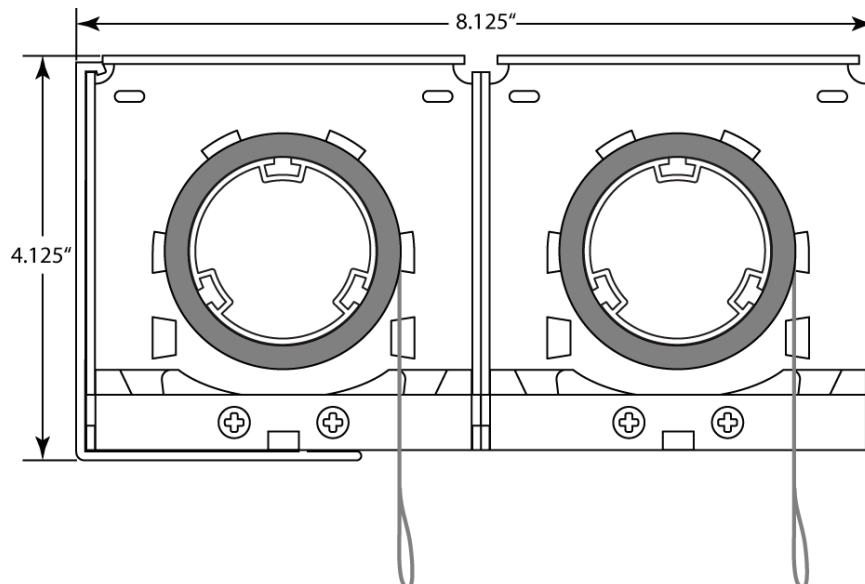
#### Dual Standard with Fascia – M16

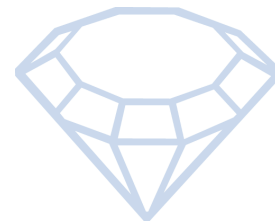
For small to medium sized manual shades, the combined bracket size is 6.125" wide by 3.125" long and must be ceiling. Endcaps are optional.



#### Dual Standard with Fascia – M24

For medium to large sized manual shades, the combined bracket size is 8.125" wide by 4.125" long and must be ceiling. Endcaps are optional.





## ROLLER SHADE DETAILS

### *DUAL MANUAL SHADES*

#### *Dual Standard Shade System with Fascia*

The compact design of our Dual Standard Shade bracket permits two shades to fit in a smaller space than two individual shades installed on the same window. Based upon the 1.75" tube using M24 clutches, the maximum shade size depends upon the thickness of the fabric selected, but this system will accommodate most medium to large sized shades. Larger shade sizes require custom dual bracketry and/or a dual headbox assembly.

