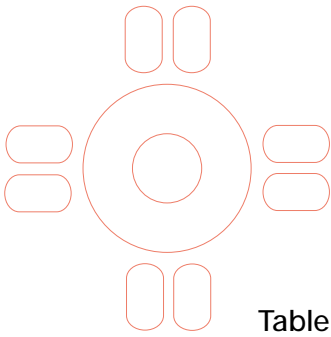


# Section 11: Weights and Measures

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# Shade Height, Tube and Bracket Selector Guide for MechoShades® and Suburban™/2

Group A ShadeCloths (Series: 0900, 1000, 1300, 3000 and 5400) .030" thick, average 1.05 lbs. per sq. yd.

Weights shown are the hanging weight of the shadeband, expressed in pounds. **ADD .01 Lbs. per inch for each Batten required.**  
**Bold numbers indicate a Lift-Assist Mechanism™ (LAM™) is required for a manual single-banded shade over 10 lbs., up to 25 lbs.**  
 Contact MechoShade Systems Technical Support for manual shades over 25 lbs. (See Notes below).

**Roll Diameter x Opening Height**  
**ADD 1/8" (.125") to the below listed roll up diameters for each batten required.**  
 Battens may be required when a shadeband's Width to Height Ratio is equal or greater than a 1:4 ratio or railroaded (landscaped) shadebands over 84" wide.

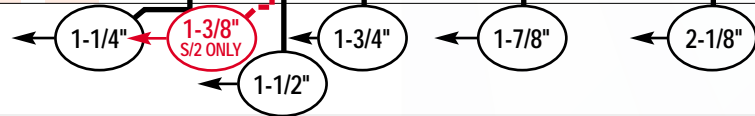
## ① Tube Size to Accommodate the Shade Weight & Window Span

	36"	48"	60"	72"	84"	96"	108"	120"	126"	132"	144"	156"	HT	
H	36"	1.7	2.3	2.9	3.4	4.0	4.6	3.9	4.3	4.5	4.8	5.2	5.6	36"
	48"	2.1	2.8	3.4	4.1	4.8	5.5	4.9	5.5	5.8	6.0	6.6	7.1	48"
	60"	2.4	3.2	4.0	4.8	5.6	6.4	6.0	6.7	7.0	7.3	8.0	8.6	60"
	72"	2.8	3.7	4.6	5.5	6.5	7.4	7.0	7.8	8.2	8.6	9.4	10.8	72"
E	84"	3.1	4.2	5.2	6.2	7.3	8.3	8.1	9.0	9.4	9.9	10.8	12.2	84"
	96"	3.5	4.6	5.8	6.9	8.1	9.2	9.1	10.2	10.7	11.2	12.2	13.6	96"
	108"	3.8	5.1	6.4	7.6	8.9	10.2	10.2	11.3	11.9	12.5	13.6	15.0	108"
	120"	4.2	5.6	6.9	8.3	9.7	11.1	11.2	12.5	13.1	13.7	15.0	17.6	120"
I	126"	4.3	5.8	7.2	8.7	10.1	11.6	11.8	13.1	13.7	14.4	15.7	18.9	126"
	132"	4.5	6.0	7.5	9.0	10.5	12.0	12.3	13.7	14.3	15.0	17.6	20.2	132"
	144"	4.9	6.5	8.1	9.7	11.4	13.0	13.3	14.8	15.6	16.3	18.9	21.4	144"
	156"	5.2	7.0	8.7	10.4	12.2	13.9	14.4	16.0	16.8	17.6	20.2	22.7	156"
G	168"	5.6	7.4	9.3	11.1	13.0	14.8	15.4	17.2	18.0	18.9	21.4	24.0	168"
	180"	5.9	7.9	9.9	11.8	13.8	15.8	16.5	18.3	19.2	20.2	22.7	25.4	180"
	192"	6.3	8.4	10.4	12.5	14.6	16.7	17.5	19.5	20.5	21.4	24.0	27.1	192"
	204"	6.6	8.8	11.0	13.2	15.4	17.6	18.6	20.7	21.7	22.7	25.4	28.1	204"
T	216"	7.0	9.3	11.6	13.9	16.3	18.6	19.6	21.8	22.9	24.0	27.1	30.1	216"
	228"	7.3	9.8	12.2	14.6	17.1	19.5	20.7	23.0	24.1	25.4	28.1	31.1	228"
	240"	7.7	10.2	12.8	15.3	17.9	20.4	21.7	24.2	25.4	27.1	30.1	33.1	240"
			1-1/2" BATTENS											→ Contact factory or use ElectroShades

## ② MechoShades

## Suburban/2

	1-1/4" Tube	1-1/2" Tube	1-3/4" Tube	1-7/8" Tube	2-1/8" Tube	1-1/4" Tube	1-3/8" Tube
36"	1.742"	1.978"	2.182"	2.284"	2.531"	1.742"	1.865"
48"	1.869"	2.091"	2.285"	2.382"	2.620"	1.869"	1.984"
60"	1.988"	2.198"	2.383"	2.477"	2.706"	1.988"	2.096"
72"	2.100"	2.300"	2.478"	2.568"	2.790"	2.100"	2.203"
84"	2.207"	2.397"	2.569"	2.655"	2.871"	2.207"	2.305"
96"	2.308"	2.491"	2.656"	2.740"	2.949"	2.308"	
108"	2.406"	2.582"	2.741"	2.823"	3.026"		
120"	2.499"	2.669"	2.824"	2.903"	3.101"		
126"	2.545"	2.711"	2.864"	2.942"	3.138"		
132"	2.589"	2.753"	2.904"	2.981"	3.174"		
144"	2.676"	2.835"	2.982"	3.057"	3.246"		
156"	2.761"	2.915"	3.058"	3.131"	3.315"		
168"	2.843"	2.993"	3.132"	3.203"	3.384"		
180"	2.922"	3.068"	3.204"	3.274"	3.451"		
192"	3.000"	3.142"	3.275"	3.343"	3.517"		
204"	3.075"	3.214"	3.344"	3.411"	3.581"		
216"	3.149"	3.285"	3.412"	3.478"	3.645"		
228"	3.221"	3.354"	3.479"	3.543"	3.707"		
240"	3.291"	3.422"	3.544"	3.607"	3.769"		



The above Diameters include the following amount of wrap:

5-1/2"	7-1/2"	8-1/2"	8-1/2"	10"	5-1/2"	5-1/2"
--------	--------	--------	--------	-----	--------	--------

## ③ Bracket Selection For larger size shades contact our technical or estimating departments or see ElectroShade section.

Bracket System	Model Number	Roll Up		Tube Sizes Available
		With Fascia	Without Fascia	
Mecho® SlimLine™	MS-SL	2.25"	2.75"	1-1/4" & 1-1/2"
Mecho®/5 Wide	M5-WI	2.75"	2.75"	1-1/4", 1-1/2", 1-3/4", 1-7/8" & 2-1/8"
Mecho/5 Pocket	M5-PKT	N/A	4.0"	1-1/4", 1-1/2", 1-3/4", 1-7/8" & 2-1/8"
Mecho/5 Extended	M5-EXT	3.438"	5.0"	1-1/4", 1-1/2", 1-3/4", 1-7/8" & 2-1/8"
Suburban™ /2	SU-2UN	2.375"	2.375"	1-1/4" & 1-3/8"

\* When determining the space required by a specific bracket, factor in both the fascia and roll up diameter of the shadecloth. The roll up diameter for Mecho/5 Pocket and Extended without fascia may extend beyond the bracket dimensions.

## Instructions.

- Determine the proper tube for the width and height of the shadeband.
- Determine the roll up diameter for the tube and opening height, making adjustment for battens as required.
- Determine which bracket model can accommodate the roll up diameter required.

## Note:

- For multibanded MechoShades, a Lift-Assist Mechanism is recommended at 8 Lbs.
- Suburban/2 shades cannot be multibanded.
- Shadebands less than 30" require battens @ +1:3 ratio.

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# Shade Height, Tube and Bracket Selector Guide for MechoShades® and Suburban™/2

Group B ShadeCloths (Series: 1600 and 2100) .030" thick, average .95 lbs. per sq. yd.

Weights shown are the hanging weight of the shadeband, expressed in pounds. **ADD .01 Lbs. per inch for each Batten required.**

**Bold numbers indicate a Lift-Assist Mechanism™ (LAM™) is required for a manual single-banded shade over 10 lbs., up to 25 lbs.**

Contact MechoShade Systems Technical Support for manual shades over 25 lbs. (See Notes below).

## Roll Diameter x Opening Height

**ADD 1/8" (.125") to the below listed roll up diameters for each batten required.**

Battens may be required when a shadeband's Width to Height Ratio is equal or greater than a 1:4 ratio or railroaded (landscaped) shadebands over 84" wide.

### ① Tube Size to Accommodate the Shade Weight & Window Span

	36"	48"	60"	72"	84"	96"	108"	120"	126"	132"	144"	156"	HT	
	36"	1.6	2.1	2.7	3.2	3.8	4.3	3.6	4.0	4.2	4.4	4.8	5.2	36"
	48"	1.9	2.6	3.2	3.9	4.5	5.2	4.5	5.0	5.3	5.6	6.1	6.6	48"
H	60"	2.3	3.0	3.8	4.5	5.3	6.0	5.5	6.1	6.4	6.7	7.3	7.9	60"
	72"	2.6	3.4	4.3	5.1	6.0	6.8	6.4	7.2	7.5	7.9	8.6	9.3	72"
	84"	2.9	3.8	4.8	5.8	6.7	7.7	7.4	8.2	8.6	9.0	9.9		84"
E	96"	3.2	4.3	5.3	6.4	7.5	8.5	8.3	9.3	9.7	10.2	11.1		96"
	108"	3.5	4.7	5.9	7.0	8.2	9.4	9.3	10.3	10.8	11.4	12.4		108"
I	120"	3.8	5.1	6.4	7.7	8.9	10.2	10.2	11.4	11.9	12.5	13.7		120"
	126"	4.0	5.3	6.7	8.0	9.3	10.6	10.7	11.9	12.5	13.1	14.3		126"
	132"	4.2	5.5	6.9	8.3	9.7	11.1	11.2	12.4	13.1	13.7	14.9		132"
G	144"	4.5	6.0	7.4	8.9	10.4	11.9	12.1	13.5	14.2	14.8	16.2		144"
	156"	4.8	6.4	8.0	9.6	11.2	12.8	13.1	14.5	15.3	16.0		156"	
H	168"	5.1	6.8	8.5	10.2	11.9	13.6	14.0	15.6	16.4	17.2		168"	
	180"	5.4	7.2	9.0	10.8	12.6	14.4	15.0	16.7	17.5	18.3		180"	
	192"	5.7	7.6	9.6	11.5	13.4	15.3	15.9	17.7	18.6	19.5		192"	
	204"	6.1	8.1	10.1	12.1	14.1	16.1	16.9	18.8	19.7	20.6		204"	
T	216"	6.4	8.5	10.6	12.7	14.8	17.0	17.8	19.8	20.8	21.8	Contact factory or use ElectroShades		216"
	228"	6.7	8.9	11.1	13.4	15.6	17.8	18.8	20.9	21.9	23.0		228"	
	240"	7.0	9.3	11.7	14.0	16.3	18.7	19.7	22.0	23.0	24.1		240"	



### ② MechoShades

### Suburban/2

	1-1/4" Tube	1-1/2" Tube	1-3/4" Tube	1-7/8" Tube	2-1/8" Tube	1-1/4" Tube	1-3/8" Tube
36"	1.742"	1.978"	2.182"	2.284"	2.531"	1.742"	1.865"
48"	1.869"	2.091"	2.285"	2.382"	2.620"	1.869"	1.984"
60"	1.988"	2.198"	2.383"	2.477"	2.706"	1.988"	2.096"
72"	2.100"	2.300"	2.478"	2.568"	2.790"	2.100"	2.203
84"	2.207"	2.397"	2.569"	2.655"	2.871"	2.207"	2.305"
96"	2.308"	2.491"	2.656"	2.740"	2.949"	2.308"	
108"	2.406"	2.582"	2.741"	2.823"	3.026"		
120"	2.499"	2.669"	2.824"	2.903"	3.101"		
126"	2.545"	2.711"	2.864"	2.942"	3.138"		
132"	2.589"	2.753"	2.904"	2.981"	3.174"		
144"	2.676"	2.835"	2.982"	3.057"	3.246"		
156"	2.761"	2.915"	3.058"	3.131"	3.315"		
168"	2.843"	2.993"	3.132"	3.203"	3.384"		
180"	2.922"	3.068"	3.204"	3.274"	3.451"		
192"	3.000"	3.142"	3.275"	3.343"	3.517"		
204"	3.075"	3.214"	3.344"	3.411"	3.581"		
216"	3.149"	3.285"	3.412"	3.478"	3.645"		
228"	3.221"	3.354"	3.479"	3.543"	3.707"		
240"	3.291"	3.422"	3.544"	3.607"	3.769"		

The above Diameters include the following amount of wrap:

5-1/2"	7-1/2"	8-1/2"	8-1/2"	10"	5-1/2"	5-1/2"
--------	--------	--------	--------	-----	--------	--------

### ③ Bracket Selection For larger size shades contact our technical or estimating departments or see ElectroShade section.

Bracket System	Model Number	Roll Up With Fascia	Roll Up Without Fascia	Tube Sizes Available
Mecho® SlimLine™	MS-SL	2.25"	2.75"	1-1/4" & 1-1/2"
Mecho®/5 Wide	M5-WI	2.75"	2.75"	1-1/4", 1-1/2", 1-3/4", 1-7/8" & 2-1/8"
Mecho/5 Pocket	M5-PKT	N/A	4.0"	1-1/4", 1-1/2", 1-3/4", 1-7/8" & 2-1/8"
Mecho/5 Extended	M5-EXT	3.438"	5.0"	1-1/4", 1-1/2", 1-3/4", 1-7/8" & 2-1/8"
Suburban™ /2	SU-2UN	2.375"	2.375"	1-1/4" & 1-3/8"

\* When determining the space required by a specific bracket, factor in both the fascia and roll up diameter of the shadecloth. The roll up diameter for Mecho/5 Pocket and Extended without fascia may extend beyond the bracket dimensions.

## Instructions.

1. Determine the proper tube for the width and height of the shadeband.
2. Determine the roll up diameter for the tube and opening height, making adjustment for battens as required.
3. Determine which bracket model can accommodate the roll up diameter required.

## Note:

- For multibanded MechoShades, a Lift-Assist Mechanism is recommended at 8 Lbs.
- Suburban/2 shades cannot be multibanded.
- Shadebands less than 30" require battens @ +1:3 ratio.

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# Shade Height, Tube and Bracket Selector Guide for MechoShades<sup>®</sup> and Suburban<sup>™</sup>/2

Group C ShadeCloths (Series: 1800 and 5500) .030" thick, average .8465 lbs. per sq. yd.

Weights shown are the hanging weight of the shadeband, expressed in pounds. **ADD .01 Lbs. per inch for each Batten required.**

**Bold numbers indicate a Lift-Assist Mechanism<sup>™</sup> (LAM<sup>™</sup>) is required for a manual single-banded shade over 10 lbs., up to 25 lbs.**

Contact MechoShade Systems Technical Support for manual shades over 25 lbs. (See Notes below).

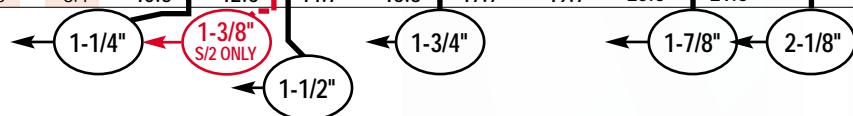
Roll Diameter x Opening Height

**ADD 1/8" (.125") to the below listed roll up diameters for each batten required.**

Battens may be required when a shadeband's Width to Height Ratio is equal or greater than a 1:4 ratio or railroaded (landscaped) shadebands over 84" wide.

## ① Tube Size to Accommodate the Shade Weight & Window Span

HT	Tube Size to Accommodate the Shade Weight & Window Span												HT	MechoShades					Suburban/2	
	36"	48"	60"	72"	84"	96"	108"	120"	126"	132"	144"	156"		1-1/4" Tube	1-1/2" Tube	1-3/4" Tube	1-7/8" Tube	2-1/8" Tube	1-1/4" Tube	1-3/8" Tube
36"	1.5	2.0	2.5	3.0	3.5	4.0	3.3	3.6	3.8	4.0	4.4	4.7	36"	1.742"	1.978"	2.182"	2.284"	2.531"	1.742"	1.865"
48"	1.8	2.4	3.0	3.6	4.2	4.8	4.1	4.6	4.8	5.0	5.5	6.0	48"	1.869"	2.091"	2.285"	2.382"	2.620"	1.869"	1.984"
60"	2.1	2.8	3.5	4.2	4.9	5.5	5.0	5.5	5.8	6.1	6.6	7.2	60"	1.988"	2.198"	2.383"	2.477"	2.706"	1.988"	2.096"
72"	2.4	3.1	3.9	4.7	5.5	6.3	5.8	6.5	6.8	7.1	7.8	8.4	72"	2.100"	2.300"	2.478"	2.568"	2.790"	2.100"	2.203"
84"	2.6	3.5	4.4	5.3	6.2	7.0	6.7	7.4	7.8	8.1	8.9	9.6	84"	2.207"	2.397"	2.569"	2.655"	2.871"	2.207"	2.305"
96"	2.9	3.9	4.9	5.8	6.8	7.8	7.5	8.4	8.8	9.2	10.0	10.7	96"	2.308"	2.491"	2.656"	2.740"	2.949"	2.308"	
108"	3.2	4.3	5.3	6.4	7.5	8.6	8.4	9.3	9.8	10.2	11.1	11.8	108"	2.406"	2.582"	2.741"	2.823"	3.026"		
120"	3.5	4.7	5.8	7.0	8.1	9.3	9.4	10.2	10.7	11.3	12.3	13.0	120"	2.499"	2.669"	2.824"	2.903"	3.101"		
126"	3.6	4.8	6.1	7.3	8.5	9.7	9.6	10.7	11.2	11.8	12.8	13.5	126"	2.545"	2.711"	2.864"	2.942"	3.138"		
132"	3.8	5.0	6.3	7.5	8.8	10.1	10.0	11.2	11.7	12.3	13.4	14.1	132"	2.589"	2.753"	2.904"	2.981"	3.174"		
144"	4.1	5.4	6.8	8.1	9.5	10.8	10.9	12.1	12.7	13.3	14.5	15.2	144"	2.676"	2.835"	2.982"	3.057"	3.246"		
156"	4.3	5.8	7.2	8.7	10.1	11.6	11.7	13.1	13.7	14.4	15.7	16.4	156"	2.761"	2.915"	3.058"	3.131"	3.315"		
168"	4.6	6.2	7.7	9.2	10.8	12.3	12.6	14.0	14.7	15.4	16.7	17.4	168"	2.843"	2.993"	3.132"	3.203"	3.384"		
180"	4.9	6.5	8.2	9.8	11.4	13.1	13.4	14.9	15.7	16.4	17.7	18.4	180"	2.922"	3.068"	3.204"	3.274"	3.451"		
192"	5.2	6.9	8.6	10.4	12.1	13.8	14.3	15.9	16.7	17.5	18.8	19.5	192"	3.000"	3.142"	3.275"	3.343"	3.517"		
204"	5.5	7.3	9.1	10.9	12.8	14.6	15.1	16.8	17.7	18.5	20.0	20.6	204"	3.075"	3.214"	3.344"	3.411"	3.581"		
216"	5.8	7.7	9.6	11.5	13.4	15.3	16.0	17.8	18.6	19.5	21.0	21.6	216"	3.149"	3.285"	3.412"	3.478"	3.645"		
228"	6.0	8.0	10.0	12.1	14.1	16.1	16.8	18.7	19.6	20.6	22.1	22.6	228"	3.221"	3.354"	3.479"	3.543"	3.707"		
240"	6.3	8.4	10.5	12.6	14.7	16.8	17.7	19.7	20.6	21.6	23.1	23.6	240"	3.291"	3.422"	3.544"	3.607"	3.769"		



The above Diameters include the following amount of wrap:  
 5-1/2"    7-1/2"    8-1/2"    8-1/2"    10"    5-1/2"    5-1/2"

## ③ Bracket Selection For larger size shades contact our technical or estimating departments or see ElectroShade section.

Bracket System	Model Number	Roll Up With Fascia	Roll Up Without Fascia	Tube Sizes Available
Mecho <sup>®</sup> SlimLine <sup>™</sup>	MS-SL	2.25"	2.75"	1-1/4" & 1-1/2"
Mecho <sup>®</sup> /5 Wide	M5-WI	2.75"	2.75"	1-1/4", 1-1/2", 1-3/4", 1-7/8" & 2-1/8"
Mecho/5 Pocket	M5-PKT	N/A	4.0"	1-1/4", 1-1/2", 1-3/4", 1-7/8" & 2-1/8"
Mecho/5 Extended	M5-EXT	3.438"	5.0"	1-1/4", 1-1/2", 1-3/4", 1-7/8" & 2-1/8"
Suburban <sup>™</sup> /2	SU-2UN	2.375"	2.375"	1-1/4" & 1-3/8"

\* When determining the space required by a specific bracket, factor in both the fascia and roll up diameter of the shadecloth. The roll up diameter for Mecho/5 Pocket and Extended without fascia may extend beyond the bracket dimensions.

## Instructions.

- Determine the proper tube for the width and height of the shadeband.
- Determine the roll up diameter for the tube and opening height, making adjustment for battens as required.
- Determine which bracket model can accommodate the roll up diameter required.

## Note:

- For multibanded MechoShades, a Lift-Assist Mechanism is recommended at 8 Lbs.
- Suburban/2 shades cannot be multibanded.
- Shadebands less than 30" require battens @ +1:3 ratio.

# Shade Height, Tube and Bracket Selector Guide for MechoShades® and Suburban™/2

Group D ShadeCloths (Series: 5100, 5200, 5300, 6000 and 6300) .024" thick, average .9 lbs. per sq. yd.

Weights shown are the hanging weight of the shadeband, expressed in pounds. **ADD .01 Lbs. per inch for each Batten required.**

**Bold numbers indicate a Lift-Assist Mechanism™ (LAM™) is required for a manual single-banded shade over 10 lbs., up to 25 lbs.**

Contact MechoShade Systems Technical Support for manual shades over 25 lbs. (See Notes below).

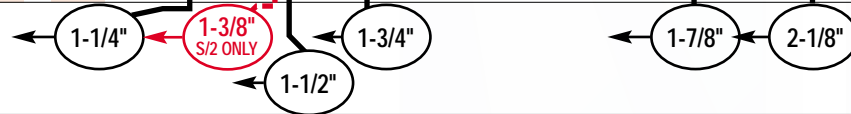
## Roll Diameter x Opening Height

**ADD 1/8" (.125") to the below listed roll up diameters for each batten required.**

Battens may be required when a shadeband's Width to Height Ratio is equal or greater than a 1:4 ratio or railroaded (landscaped) shadebands over 84" wide.

### ① Tube Size to Accommodate the Shade Weight & Window Span

	36"	48"	60"	72"	84"	96"	108"	120"	126"	132"	144"	156"	HT	
H	36"	1.6	2.1	2.6	3.1	3.7	4.2	3.4	3.8	4.0	4.2	4.6	5.0	36"
	48"	1.9	2.5	3.1	3.7	4.4	5.0	4.3	4.8	5.1	5.3	5.8	6.3	48"
	60"	2.2	2.9	3.6	4.3	5.1	5.8	5.2	5.8	6.1	6.4	7.0	7.6	60"
	72"	2.5	3.3	4.1	4.9	5.8	6.6	6.1	6.8	7.2	7.5	8.2	8.9	72"
	84"	2.8	3.7	4.6	5.5	6.5	7.4	7.0	7.8	8.2	8.6	9.4	10.2	84"
E	96"	3.1	4.1	5.1	6.1	7.2	8.2	8.0	8.8	9.3	9.7	10.6		96"
	108"	3.4	4.5	5.6	6.7	7.9	9.0	8.8	9.8	10.3	10.8	11.8		108"
	120"	3.7	4.9	6.1	7.3	8.6	9.8	9.7	10.8	11.4	11.9	13.0		120"
I	126"	3.8	5.1	6.4	7.6	8.9	10.2	10.2	11.3	11.9	12.5	13.6		126"
	132"	4.0	5.3	6.6	7.9	9.3	10.6	10.6	11.8	12.4	13.0	14.2		132"
G	144"	4.3	5.7	7.1	8.5	10.0	11.4	11.5	12.8	13.5	14.1	15.4		144"
	156"	4.6	6.1	7.6	9.1	10.7	12.2	12.4	13.8	14.5	15.2		156"	
	168"	4.9	6.5	8.1	9.7	11.4	13.0	13.3	14.8	15.6	16.3		168"	
H	180"	5.2	6.9	8.6	10.3	12.1	13.8	14.2	15.8	16.6	17.4		180"	
	192"	5.5	7.3	9.1	10.9	12.8	14.6	15.1	16.8	17.7	18.5		192"	
	204"	5.8	7.7	9.6	11.5	13.5	15.4	16.0	17.8	18.7	19.6		204"	
T	216"	6.1	8.1	10.1	12.1	14.2	16.2	16.9	18.8	19.8	20.7	Contact factory or use ElectroShades		
	228"	6.4	8.5	10.6	12.7	14.9	17.0	17.8	19.8	20.8	21.8		228"	
	240"	6.7	8.9	11.1	13.3	15.6	17.8	18.7	20.8	21.9	22.9		240"	



### ② MechoShades

### Suburban/2

	1-1/4" Tube	1-1/2" Tube	1-3/4" Tube	1-7/8" Tube	2-1/8" Tube	1-1/4" Tube	1-3/8" Tube
36"	1.649"	1.892"	2.103"	2.208"	2.461"	1.649"	1.777"
48"	1.756"	1.987"	2.189"	2.290"	2.534"	1.756"	1.878"
60"	1.858"	2.077"	2.271"	2.369"	2.605"	1.858"	1.973"
72"	1.954"	2.163"	2.350"	2.445"	2.675"	1.954"	2.064"
84"	2.046"	2.247"	2.427"	2.519"	2.743"	2.046"	2.151"
96"	2.134"	2.327"	2.501"	2.590"	2.804"	2.134"	2.235"
108"	2.218"	2.404"	2.574"	2.660"	2.873"	2.218"	2.315"
120"	2.299"	2.480"	2.644"	2.728"	2.936"	2.299"	
126"	2.339"	2.516"	2.679"	2.762"	2.968"	2.339"	
132"	2.378"	2.552"	2.713"	2.795"	2.998"		
144"	2.454"	2.623"	2.779"	2.860"	3.059"		
156"	2.527"	2.692"	2.845"	2.923"	3.118"		
168"	2.599"	2.760"	2.908"	2.985"	3.177"		
180"	2.669"	2.825"	2.971"	3.046"	3.234"		
192"	2.736"	2.890"	3.032"	3.106"	3.290"		
204"	2.803"	2.952"	3.092"	3.164	3.345"		
216"	2.867"	3.014"	3.151"	3.222"	3.400"		
228"	2.931"	3.074"	3.208"	3.278"	3.453"		
240"	2.993"	3.133"	3.265"	3.334"	3.506"		

The above Diameters include the following amount of wrap:

5-1/2"	7-1/2"	8-1/2"	8-1/2"	10"	5-1/2"	5-1/2"
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### ③ Bracket Selection For larger size shades contact our technical or estimating departments or see ElectroShade section.

Bracket System	Model Number	Roll Up With Fascia	Roll Up Without Fascia	Tube Sizes Available
Mecho® SlimLine™	M5-SL	2.25"	2.75"	1-1/4" & 1-1/2"
Mecho®/5 Wide	M5-WI	2.75"	2.75"	1-1/4", 1-1/2", 1-3/4", 1-7/8" & 2-1/8"
Mecho/5 Pocket	M5-PKT	N/A	4.0"	1-1/4", 1-1/2", 1-3/4", 1-7/8" & 2-1/8"
Mecho/5 Extended	M5-EXT	3.438"	5.0"	1-1/4", 1-1/2", 1-3/4", 1-7/8" & 2-1/8"
Suburban™ /2	SU-2UN	2.375"	2.375"	1-1/4" & 1-3/8"

\* When determining the space required by a specific bracket, factor in both the fascia and roll up diameter of the shadecloth. The roll up diameter for Mecho/5 Pocket and Extended without fascia may extend beyond the bracket dimensions.

## Instructions.

- Determine the proper tube for the width and height of the shadeband.
- Determine the roll up diameter for the tube and opening height, making adjustment for battens as required.
- Determine which bracket model can accommodate the roll up diameter required.

## Note:

- For multibanded MechoShades, a Lift-Assist Mechanism is recommended at 8 Lbs.
- Suburban/2 shades cannot be multibanded.
- Shadebands less than 30" require battens @ +1:3 ratio.

MechoShade Systems, Inc.

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# Shade Height, Tube and Bracket Selector Guide for MechoShades® and Suburban™/2

Group E Blackout ShadeCloths (Series: 0700) .016" thick, average .8750 lbs per sq. yd.

Weights shown are the hanging weight of the shadeband, expressed in pounds. **ADD .01 Lbs. per inch for each Batten required.**

**Bold numbers indicate a Lift-Assist Mechanism™ (LAM™) is required for a manual single-banded shade over 10 lbs., up to 25 lbs.**

Contact MechoShade Systems Technical Support for manual shades over 25 lbs. (See Notes below).

Roll Diameter x Opening Height

**ADD 1/8" (.125") to the below listed roll up diameters for each batten required.**

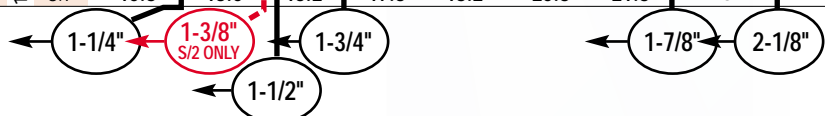
Battens may be required when a shadeband's Width to Height Ratio is equal or greater than a 1:4 ratio or railroaded (landscaped) shadebands over 84" wide.

## ① Tube Size to Accommodate the Shade Weight & Window Span

	36"	48"	60"	72"	84"	96"	108"	120"	126"	132"	144"	156"	HT	
H	36"	1.5	2.0	2.6	3.1	3.6	4.1	3.4	3.7	3.9	4.1	4.5	4.9	36"
	48"	1.8	2.4	3.1	3.7	4.3	4.9	4.2	4.7	4.9	5.2	5.7	6.1	48"
	60"	2.1	2.8	3.5	4.3	5.0	5.7	5.1	5.7	6.0	6.3	6.8	7.4	60"
	72"	2.4	3.2	4.0	4.8	5.6	6.4	6.0	6.7	7.0	7.3	8.0	8.7	72"
E	84"	2.7	3.6	4.5	5.4	6.3	7.2	6.9	7.6	8.0	8.4	9.2	9.9	84"
	96"	3.0	4.0	5.0	6.0	7.0	8.0	7.7	8.6	9.0	9.5	10.3	11.0	96"
	108"	3.3	4.4	5.5	6.6	7.7	8.8	8.6	9.6	10.0	10.5	11.5	12.2	108"
	120"	3.6	4.8	6.0	7.2	8.4	9.6	9.5	10.5	11.1	11.6	12.7	13.4	120"
I	126"	3.7	5.0	6.2	7.5	8.7	9.9	9.9	11.0	11.6	12.1	13.2	13.8	126"
	132"	3.9	5.2	6.5	7.8	9.0	10.3	10.4	11.5	12.1	12.7	13.8	14.4	132"
	144"	4.2	5.6	6.9	8.3	9.7	11.1	11.2	12.5	13.1	13.7	15.0	15.6	144"
	156"	4.5	5.9	7.4	8.9	10.4	11.9	12.1	13.5	14.1	14.8	16.2	16.8	156"
G	168"	4.8	6.3	7.9	9.5	11.1	12.7	13.0	14.4	15.2	15.9	17.3	18.0	168"
	180"	5.0	6.7	8.4	10.1	11.8	13.4	13.9	15.4	16.2	16.9	18.3	19.0	180"
	192"	5.3	7.1	8.9	10.7	12.4	14.2	14.7	16.4	17.2	18.0	19.1	19.7	192"
	204"	5.6	7.5	9.4	11.3	13.1	15.0	15.6	17.4	18.2	19.1	20.2	20.8	204"
T	216"	5.9	7.9	9.9	11.8	13.8	15.8	16.5	18.3	19.2	20.2	21.2	21.8	216"
	228"	6.2	8.3	10.4	12.4	14.5	16.6	17.4	19.3	20.3	21.2	22.2	22.8	228"
	240"	6.5	8.7	10.8	13.0	15.2	17.3	18.2	20.3	21.3	22.3	23.3	23.9	240"
			<b>1-5 BATTENS</b>											

## ② MechoShades Suburban/2

	1-1/4" Tube	1-1/2" Tube	1-3/4" Tube	1-7/8" Tube	2-1/8" Tube	1-1/4" Tube	1-3/8" Tube
36"	1.515"	1.765"	1.992"	2.103"	2.363"	1.515"	1.654"
48"	1.594"	1.833"	2.053"	2.160"	2.415"	1.594"	1.727"
60"	1.669"	1.899"	2.111"	2.216"	2.465"	1.669"	1.796"
72"	1.740"	1.962"	2.169"	2.271"	2.514"	1.740"	1.863"
84"	1.809"	2.023"	2.224"	2.324"	2.562"	1.809"	1.927"
96"	1.875"	2.083"	2.278"	2.376"	2.609"	1.875"	1.990"
108"	1.940"	2.141"	2.331"	2.427"	2.656"	1.940"	2.050"
120"	2.002"	2.197"	2.383"	2.477"	2.701"	2.002"	2.109"
126"	2.032"	2.225"	2.409"	2.501"	2.724"	2.032"	2.138"
132"	2.062"	2.252"	2.434"	2.525"	2.746"	2.062"	2.166"
144"	2.120"	2.306"	2.484"	2.573"	2.790"	2.120"	2.222"
156"	2.177"	2.358"	2.533"	2.620"	2.834"	2.177"	2.276"
168"	2.233"	2.409"	2.580"	2.667"	2.877"	2.233"	2.330"
180"	2.287"	2.460"	2.627"	2.712"	2.919"	2.287"	
192"	2.339"	2.509"	2.673"	2.757"	2.960"	2.339"	
204"	2.391"	2.557"	2.719"	2.801"	3.001"		
216"	2.442"	2.604"	2.763"	2.844"	3.042"		
228"	2.491"	2.651"	2.807"	2.887"	3.082"		
240"	2.540"	2.697"	2.850"	2.929"	3.121"		



The above Diameters include the following amount of wrap:  
 5-1/2" 7-1/2" 8-1/2" 8-1/2" 10" 5-1/2" 5-1/2"

## ③ Bracket Selection For larger size shades contact our technical or estimating departments or see ElectroShade section.

Bracket System	Model Number	Roll Up		Tube Sizes Available
		With Fascia	Without Fascia	
Mecho® SlimLine™	MS-SL	2.25"	2.75"	1-1/4" & 1-1/2"
Mecho®/5 Wide	M5-WI	2.75"	2.75"	1-1/4", 1-1/2", 1-3/4", 1-7/8" & 2-1/8"
Mecho/5 Pocket	M5-PKT	N/A	4.0"	1-1/4", 1-1/2", 1-3/4", 1-7/8" & 2-1/8"
Mecho/5 Extended	M5-EXT	3.438"	5.0"	1-1/4", 1-1/2", 1-3/4", 1-7/8" & 2-1/8"
Suburban™ /2	SU-2UN	2.375"	2.375"	1-1/4" & 1-3/8"

\* When determining the space required by a specific bracket, factor in both the fascia and roll up diameter of the shadecloth. The roll up diameter for Mecho/5 Pocket and Extended without fascia may extend beyond the bracket dimensions.

## Instructions.

- Determine the proper tube for the width and height of the shadeband.
- Determine the roll up diameter for the tube and opening height, making adjustment for battens as required.
- Determine which bracket model can accommodate the roll up diameter required.

## Note:

- For multibanded MechoShades, a Lift-Assist Mechanism is recommended at 8 Lbs.
- Suburban/2 shades cannot be multibanded.
- Shadebands less than 30" require battens @ +1:3 ratio.

# Shade Height, Tube and Bracket Selector Guide for MechoShades® and Suburban™/2

Group F Blackout ShadeCloths (Series: 0100) .0216" thick, average .793 lbs per sq. yd.

Weights shown are the hanging weight of the shadeband, expressed in pounds. **ADD .01 Lbs. per inch for each Batten required.**

**Bold numbers indicate a Lift-Assist Mechanism™ (LAM™) is required for a manual single-banded shade over 10 lbs., up to 25 lbs.**

Contact MechoShade Systems Technical Support for manual shades over 25 lbs. (See Notes below).

## Roll Diameter x Opening Height

**ADD 1/8" (.125") to the below listed roll up diameters for each batten required.**

Battens may be required when a shadeband's Width to Height Ratio is equal or greater than a 1:4 ratio or railroaded (landscaped) shadebands over 84" wide.

### ① Tube Size to Accommodate the Shade Weight & Window Span

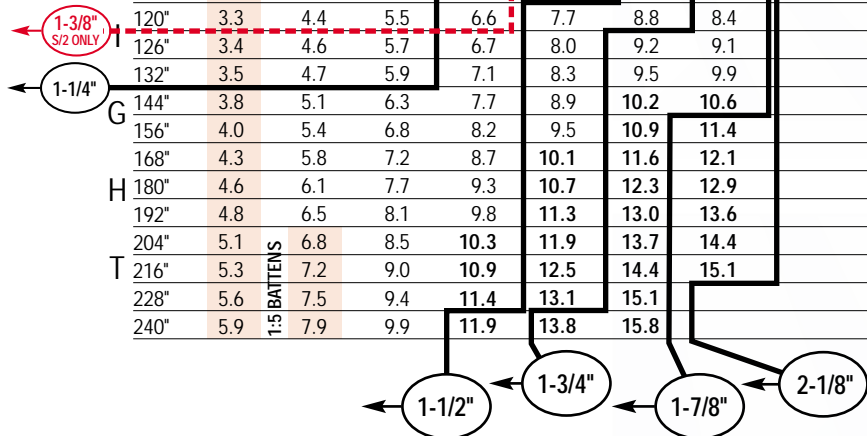
### ② MechoShades Suburban/2

	36"	48"	60"	72"	84"	96"	108"	120"	126"	132"	144"	156"	HT	1-1/4" Tube	1-1/2" Tube	1-3/4" Tube	1-7/8" Tube	2-1/8" Tube	1-1/4" Tube	1-3/8" Tube
	36"	1.5	1.9	2.4	2.9	3.4	3.9	3.1	3.5	3.6	3.8		36"	1.61"	1.86"	2.07"	2.18"	2.43"	1.61"	1.74
	48"	1.7	2.3	2.8	3.4	4.0	4.6	3.9	4.3	4.6			48"	1.71"	1.94"	2.15"	2.25"	2.50"	1.71"	1.83"
H	60"	2.0	2.6	3.3	4.0	4.6	5.3	4.6	5.2	5.5			60"	1.80"	2.03"	2.22"	2.32"	2.56"	1.80"	1.92"
	72"	2.2	3.0	3.7	4.5	5.2	6.0	5.4	6.1	6.4			72"	1.89"	2.11"	2.30"	2.39"	2.63"	1.89"	2.01"
E	84"	2.5	3.3	4.2	5.0	5.8	6.7	6.1	7.0				84"	1.98"	2.18"	2.37"	2.46"	2.69"	1.98"	2.09"
	96"	2.8	3.7	4.6	5.6	6.4	7.4	6.9	7.9				96"	2.06"	2.26"	2.44"	2.53"	2.75"	2.06"	2.16"
	108"	3.0	4.0	5.0	6.1	7.1	8.1	7.6					108"	2.14"	2.33"	2.50"	2.59"	2.81"	2.14"	2.24"
	120"	3.3	4.4	5.5	6.6	7.7	8.8	8.4					120"	2.21"	2.40"	2.57"	2.66"	2.87"	2.21"	2.31"
	126"	3.4	4.6	5.7	6.7	8.0	9.2	9.1					126"	2.25"	2.43"	2.60"	2.69"	2.90"	2.25"	
	132"	3.5	4.7	5.9	7.1	8.3	9.5	9.9					132"	2.29"	2.47"	2.63"	2.72"	2.92"	2.29"	
G	144"	3.8	5.1	6.3	7.7	8.9	10.2	10.6					144"	2.36"	2.53"	2.69"	2.78"	2.98"		
	156"	4.0	5.4	6.8	8.2	9.5	10.9	11.4					156"	2.43"	2.60"	2.75"	2.84"	3.04"		
H	168"	4.3	5.8	7.2	8.7	10.1	11.6	12.1					168"	2.49"	2.66"	2.81"	2.89"	3.09"		
	180"	4.6	6.1	7.7	9.3	10.7	12.3	12.9					180"	2.56"	2.72"	2.87"	2.95"	3.14"		
	192"	4.8	6.5	8.1	9.8	11.3	13.0	13.6					192"	2.62"	2.78"	2.93"	3.00"	3.19"		
T	204"	5.1	6.8	8.5	10.3	11.9	13.7	14.4					204"	2.69"	2.84"	2.98"	3.06"	3.25"		
	216"	5.3	7.2	9.0	10.9	12.5	14.4	15.1					216"	2.75"	2.90"	3.04"	3.11"	3.30"		
	228"	5.6	7.5	9.4	11.4	13.1	15.1						228"	2.81"	2.95"	3.09"	3.17"	3.35"		
	240"	5.9	7.9	9.9	11.9	13.8	15.8						240"	2.86"	3.01"	3.15"	3.22"	3.39"		

Contact factory or use ElectroShades

The above Diameters include the following amount of wrap:

5-1/2"	7-1/2"	8-1/2"	8-1/2"	10"	5-1/2"	5-1/2"
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### ③ Bracket Selection For larger size shades contact our technical or estimating departments or see ElectroShade section.

Bracket System	Model Number	Roll Up With Fascia	Roll Up Without Fascia	Tube Sizes Available
Mecho® SlimLine™	MS-SL	2.25"	2.75"	1-1/4" & 1-1/2"
Mecho®/5 Wide	M5-WI	2.75"	2.75"	1-1/4", 1-1/2", 1-3/4", 1-7/8" & 2-1/8"
Mecho/5 Pocket	M5-PKT	N/A	4.0"	1-1/4", 1-1/2", 1-3/4", 1-7/8" & 2-1/8"
Mecho/5 Extended	M5-EXT	3.438"	5.0"	1-1/4", 1-1/2", 1-3/4", 1-7/8" & 2-1/8"
Suburban™ /2	SU-2UN	2.375"	2.375"	1-1/4" & 1-3/8"

\* When determining the space required by a specific bracket, factor in both the fascia and roll up diameter of the shadecloth. The roll up diameter for Mecho/5 Pocket and Extended without fascia may extend beyond the bracket dimensions.

### Instructions.

1. Determine the proper tube for the width and height of the shadeband.
2. Determine the roll up diameter for the tube and opening height, making adjustment for battens as required.
3. Determine which bracket model can accommodate the roll up diameter required.

### Note:

- For multibanded MechoShades, a Lift-Assist Mechanism is recommended at 8 Lbs.
- Suburban/2 shades cannot be multibanded.
- Shadebands less than 30" require battens @ +1:3 ratio.

# Batten and Seam Specifications

**Battens vs. Seams:** MechoShade Systems, Inc. is one of the only, if not the only, shade manufacturer to use a batten joint vs. a seam joint. This type of construction costs more, but is highly effective in ensuring that certain types of shade bands hang and track straight. See page 2.24 for an illustration of the Batten vs. Seam joint.

**Woven ScreenCloth:** All woven ScreenCloth, regardless if their core yarns are polyester or fiberglass, will stretch under their hanging weight due to "Woven Fabric Mechanical Extensibility" or "The Hour Glass Effect". In order to assure the proper tracking and rolling of the shadeband, and avoid the "Hour Glass Effect", battens are included by MechoShade as a standard detail when the width-to-height (W:H) ratio exceeds 1:4. Railroaded, multi-width shade bands will receive a 1-1/2" (38mm) batten joint. Battens may be specified for shade bands that otherwise do not need them to align with shade bands that do require battens, at additional cost. Battens will be positioned on the shade band, per the chart below, or at customer specified positions, subject to approval of MechoShade Systems, Inc., and may be at additional cost.

## Standard Batten Placement for Non-Railroaded (Standard) ElectroShades:

- Batten placement for non-railroaded shades shall be the minimum required to meet the 1:4 ratio of width to height.
- Battens shall be equally spaced within the shadeband opening height. For example one batten at the mid point, or two battens at 1/3 points, or three battens at 1/4 points.
- Batten placement for blackout shades with side channels shall not exceed 4'-0" (122cm) o.c. and must be specified.

Standard Batten Placement for Railroaded (RR) ElectroShades*					
Roll Widths	63" (160cm) RR*	72" (183cm) RR*	96" (244cm) RR*	126" (366cm) RR*	
<b>SHADE HEIGHTS</b>	Requires 1 width Railroaded*, +1 seam				
	Requires 1-1/2 widths Railroaded*, +1 seam				
	Requires 2 widths Railroaded*, +1 seam				
	Requires 2-1/2 widths Railroaded*, +1 seam				
	Requires 3 widths Railroaded*, +2 seams				

\* All shades measured from the bottom up to the center line of the batten joint. Railroaded (RR) Shadecloth turned width for height. An additional 9" to 12" (229mm to 305mm) fabric allowance for wrap. Other combinations of widths available (i.e. 1/4, 1/3) subject to MSS acceptance.

## Width-to-Height (W:H) Ratio Guidelines and Edge-Clearance Specifications (fabric used normally or railroaded)

- Shadebands up to 1:3 W:H ratio, require the standard edge-clearance deduction except for 30" (76cm) wide shadebands.
- 1:3 to 1:4 W:H ratios, increase the hardware edge-clearance 1/16" (1.6mm) each side to 1/8" (3.2mm) additional deduction.
- 1:4 to 1:5 W:H ratios, increase the hardware edge-clearance 1/8" (3.2mm) each side to 1/4" (6.4mm) additional deduction. Battens required.
- 1:5 to 1:6 W:H ratios, increase the hardware edge-clearance 1/4" (6.4mm) each side to 1/2" (12.8mm) additional deduction. Battens required.
- Over 1:6 W:H ratios, increase the hardware edge-clearance 5/16" (8mm) each side to 5/8" (16mm) additional deduction. Battens & guide cables required.
- Railroaded multi-width shades with horizontal joints shall have seam joints.
- Environmental conditions may require additional use of guide cables and/or battens and increased edge clearance.

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11.09  
MS2200 - 6/1/04



# Shade Height, Tube and Bracket Selector Guide for ElectroShades®

Group A ShadeCloths (Series: 0900, 1000, 1300, 3000 and 5400) .030" thick, average 1.05 lbs. per sq. yd.

Weights shown are the hanging weight of the shadeband, expressed in pounds.

ADD .00925 Lbs. per inch for each Batten required.

## ② Roll Diameter x Opening Height

ADD .125" to the below listed roll up diameters for each batten required. Battens may be required when a shadeband's Width to Height Ratio is equal or greater than a 1:4 ratio or railroaded (landscaped) shadebands over 84" wide.

## ① Tube Size to Accommodate the Shade Weight & Window Span

	84"	96"	108"	120"	126"	132"	144"	156"	168"	180"	192"	204"	216"	228"	240"	HT	1-3/4" Tube	2-1/8" Tube	2-1/2" Tube	3-1/2" Tube	4-1/2" Tube	
	72"	6.5	7.4	9.7	10.8	11.3	11.8	12.9	14.0	15.1	16.1	17.2	18.3	19.4	20.4	21.5	72"	2.478"	2.790"	3.089"	3.939"	4.879"
	84"	7.3	8.3	10.7	11.9	12.5	13.1	14.3	15.5	16.7	17.9	19.1	20.3	21.5	22.7	23.9	84"	2.569"	2.871"	3.163"	3.997"	4.926"
	96"	8.1	9.2	11.8	13.1	13.7	14.4	15.7	17.0	18.8	19.6	21.0	22.3	23.6	24.9	26.2	96"	2.656"	2.949"	3.234"	4.054"	4.972"
H	108"	8.9	10.2	12.8	14.3	15.0	15.7	17.1	18.5	20.0	21.4	22.8	24.2	25.7	27.1	28.5	108"	2.741"	3.026"	3.304"	4.110"	5.018"
	120"	9.7	11.1	13.9	15.4	16.2	17.0	18.5	20.1	21.6	23.1	24.7	26.2	27.8	29.3	30.9	120"	2.824"	3.101"	3.373"	4.166"	5.063"
E	126"	10.1	11.6	14.4	16.0	16.8	17.6	19.2	20.8	22.4	24.0	25.6	27.2	28.8	30.4	32.0	126"	2.864"	3.138"	3.407"	4.193"	5.086"
	132"	10.5	12.0	14.9	16.6	17.4	18.3	19.9	21.6	23.2	24.9	26.5	28.2	29.9	31.5		132"	2.904"	3.174"	3.440"	4.220"	5.109"
	144"	11.4	13.0	16.0	17.8	18.6	19.5	21.3	23.1	24.9	26.6	28.4	30.2	32.0	33.7		144"	2.982"	3.246"	3.506"	4.274"	5.153"
I	156"	12.2	13.9	17.0	18.9	19.9	20.8	22.7	24.6	26.5	28.4	30.3	32.2	34.1	36.0		156"	3.058"	3.315"	3.571"	4.328"	5.198"
	168"	13.0	14.8	18.1	20.1	21.1	22.1	24.1	26.1	28.1	30.1	32.1	34.2	36.2	38.2		168"	3.132"	3.384"	3.635"	4.380"	5.241"
	180"	13.8	15.8	19.1	21.3	22.3	23.4	25.5	27.6	29.8	31.9	34.0	36.1	38.3	40.4		180"	3.204"	3.451"	3.697"	4.432"	5.285"
G	192"	14.6	16.7	20.2	22.4	23.5	24.7	26.9	29.2	31.4	33.6	35.9	38.1	40.4	42.6		192"	3.275"	3.517"	3.759"	4.484"	5.328"
	204"	15.4	17.6	21.2	23.6	24.8	26.0	28.3	30.7	33.0	35.4	37.7	40.1	42.5	44.8		204"	3.344"	3.581"	3.819"	4.535"	5.371"
	216"	16.3	18.6	22.3	24.8	26.0	27.2	29.7	32.2	34.7	37.1	39.6	42.1	44.6	47.0		216"	3.412"	3.645"	3.879"	4.585"	5.414"
H	228"	17.1	19.5	23.3	25.9	27.2	28.5	31.1	33.7	36.3	38.9	41.5	44.1	46.7	49.3		228"	3.479"	3.707"	3.938"	4.635"	5.456"
	240"	17.9	20.4	24.4	27.1	28.5	29.8	32.5	35.2	37.9	40.6	43.3	46.1	48.8		240"	3.544"	3.769"	3.995"	4.684"	5.498"	
	252"	18.7	21.4	25.4	28.3	29.7	31.1	33.9	36.7	39.6	42.3	45.2	48.0	50.9		252"	3.608"	3.829"	4.052"	4.733"	5.539"	
T	264"	19.5	22.3	26.5	29.4	30.9	32.4	35.3	38.3	41.2	44.1	47.1	50.0	53.0		264"	3.670"	3.888"	4.108"	4.780"	5.580"	
	276"	20.3	23.2	27.5	30.6	32.1	33.7	36.7	39.8	42.8	45.9	48.9	52.0	55.1		276"	3.732"	3.946"	4.163"	4.828"	5.621"	
	288"	21.2	24.2	28.6	31.8	33.3	34.9	38.1	41.3	44.5	47.6	50.8	54.0	57.2		288"	3.793"	4.004"	4.218"	4.875"	5.662"	
	300"	22.0	25.1	29.6	32.9	34.6	36.2	39.5	42.8	46.1	49.4	52.7	56.0	59.3		300"	3.853"	4.061"	4.272"	4.922"	5.702"	



The above Diameters include the following amount of wrap:  
 8-1/2"    10"    10-1/2"    13-1/2"    21"

## ③ Bracket Selection For larger size shades (up to 50' x 50' ++) contact MechoShade Systems, Inc. technical or estimating departments.

Bracket System	Model Number	Roll Up With Fascia	Roll Up Without Fascia	Tube Sizes Available	Bracket System	Model Number	Roll Up With Fascia	Roll Up Without Fascia	Tube Sizes Available
Electro®/1	ES-I	N/A	4.25"	2-1/2" & 3-1/2"	Electro/3	ES-III	2.75"	2.75"	1-3/4" & 2-1/8"
Electro/1 Extended	ES-EXT	N/A	6.375"	2-1/2", 3-1/2" & 4-1/2"	Electro/3 Pocket	ES-3PK	N/A	4.0"	1-3/4" & 2-1/8"
Electro/2	ES-II	4.25"	N/A	2-1/2" & 3-1/2"	Electro/3 Extended	ES-3EX	3.4375"	5.0"	1-3/4" & 2-1/8"
Electro/2 Extended	ES-EX5	5.125"	N/A	2-1/2", 3-1/2" & 4-1/2"					
	ES-EX6	6.375"	N/A	2-1/2", 3-1/2" & 4-1/2"					

\* When determining the space required by a specific bracket, factor in both the fascia and roll up diameter of the shadecloth. The roll up diameter for Electro/1 Extended, Electro/2 Extended, Electro/3 Pocket and Electro/3 Extended (without fascia) may extend beyond the bracket dimensions.

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# Shade Height, Tube and Bracket Selector Guide for ElectroShades®

Group B ShadeCloths (Series: 1600 and 2100) .030" thick, average .95 lbs. per sq. yd.

Weights shown are the hanging weight of the shadeband, expressed in pounds.

ADD .00925 Lbs. per inch for each Batten required.

## ① Tube Size to Accommodate the Shade Weight & Window Span

	84"	96"	108"	120"	126"	132"	144"	156"	168"	180"	192"	204"	216"	228"	240"	HT	1-3/4" Tube	2-1/8" Tube	2-1/2" Tube	3-1/2" Tube	4-1/2" Tube
H 72"	6.0	6.8	9.1	10.1	10.6	11.1	12.1	13.1	14.1	15.1	16.2	17.2	18.2	19.2	20.2	72"	2.478"	2.790"	3.089"	3.939"	4.879"
H 84"	6.7	7.7	10.0	11.2	11.7	12.3	13.4	14.5	15.6	16.7	17.8	19.0	20.1	21.2	22.3	84"	2.569"	2.871"	3.163"	3.997"	4.926"
H 96"	7.5	8.5	11.0	12.2	12.8	13.4	14.6	15.9	17.1	18.3	19.5	20.8	22.0	23.2	24.4	96"	2.656"	2.949"	3.234"	4.054"	4.972"
H 108"	8.2	9.4	11.9	13.3	13.9	14.6	15.9	17.2	18.6	19.9	21.2	22.5	23.9	25.2	26.5	108"	2.741"	3.026"	3.304"	4.110"	5.018"
H 120"	8.9	10.2	12.9	14.3	15.0	15.8	17.2	18.6	20.0	21.5	22.9	24.3	25.8	27.2	28.6	120"	2.824"	3.101"	3.373"	4.166"	5.063"
E 126"	9.3	10.6	13.4	14.8	15.6	16.3	17.8	19.3	20.8	22.3	23.8	25.2	26.7	28.2	29.7	126"	2.864"	3.138"	3.407"	4.193"	5.086"
E 132"	9.7	11.1	13.8	15.4	16.1	16.9	18.4	20.0	21.5	23.1	24.6	26.1	27.7	29.2	30.7	132"	2.904"	3.174"	3.440"	4.220"	5.109"
I 144"	10.4	11.9	14.8	16.4	17.3	18.1	19.7	21.4	23.0	24.6	26.3	27.9	29.6	31.2		144"	2.982"	3.246"	3.506"	4.274"	5.153"
I 156"	11.2	12.8	15.7	17.5	18.4	19.2	21.0	22.7	24.5	26.2	28.0	29.7	31.5	33.2		156"	3.058"	3.315"	3.571"	4.328"	5.198"
G 168"	11.9	13.6	16.7	18.5	19.5	20.4	22.2	24.1	26.0	27.8	29.7	31.5	33.4	35.2		168"	3.132"	3.384"	3.635"	4.380"	5.241"
G 180"	12.6	14.4	17.6	19.6	20.6	21.6	23.5	25.5	27.4	29.4	31.4	33.3	35.3	37.2		180"	3.204"	3.451"	3.697"	4.432"	5.285"
G 192"	13.4	15.3	18.6	20.7	21.7	22.7	24.8	26.8	28.9	31.0	33.0	35.1	37.2	39.2		192"	3.275"	3.517"	3.759"	4.484"	5.328"
G 204"	14.1	16.1	19.5	21.7	22.8	23.9	26.0	28.2	30.4	32.6	34.7	36.9	39.1	41.2		204"	3.344"	3.581"	3.819"	4.535"	5.371"
H 216"	14.9	17.0	20.5	22.8	23.9	25.0	27.3	29.6	31.9	34.1	36.4	38.7	41.0	43.2		216"	3.412"	3.645"	3.879"	4.585"	5.414"
H 228"	15.6	17.8	21.4	23.8	25.0	26.2	28.6	31.0	33.3	35.7	38.1	40.5	42.9	45.3		228"	3.479"	3.707"	3.938"	4.635"	5.456"
H 240"	16.3	18.7	22.4	24.9	26.1	27.4	29.8	32.3	34.8	37.3	39.8	42.3	44.8	47.3		240"	3.544"	3.769"	3.995"	4.684"	5.498"
T 252"	17.1	19.5	23.3	26.0	27.2	28.5	31.1	33.7	36.3	38.9	41.5	44.1	46.7	49.3		252"	3.608"	3.829"	4.052"	4.733"	5.539"
T 264"	17.8	20.4	24.3	27.0	28.3	29.7	32.4	35.1	37.8	40.5	43.2	45.9	48.6		264"	3.670"	3.888"	4.108"	4.780"	5.580"	
T 276"	18.6	21.2	25.2	28.1	29.4	30.8	33.6	36.5	39.3	42.1	44.9	47.7	50.5		276"	3.732"	3.946"	4.163"	4.828"	5.621"	
T 288"	19.3	22.0	26.1	29.1	30.6	32.0	34.9	37.8	40.7	43.6	46.6	49.5	52.4		288"	3.793"	4.004"	4.218"	4.875"	5.662"	
T 300"	20.2	22.9	27.1	30.2	31.7	33.2	36.2	39.2	42.2	45.2	48.2	51.3	54.3		300"	3.853"	4.061"	4.272"	4.922"	5.702"	

## ② Roll Diameter x Opening Height

ADD .125" to the below listed roll up diameters for each batten required. Battens may be required when a shadeband's Width to Height Ratio is equal or greater than a 1:4 ratio or railroaded (landscaped) shadebands over 84" wide.



The above Diameters include the following amount of wrap:  
 8-1/2"    10"    10-1/2"    13-1/2"    21"

## ③ Bracket Selection For larger size shades (up to 50' x 50'++) contact MechoShade Systems, Inc. technical or estimating departments.

Bracket System	Model Number	Roll Up With Fascia	Roll Up Without Fascia	Tube Sizes Available
Electro®/1	ES-I	N/A	4.25"	2-1/2" & 3-1/2"
Electro/1 Extended	ES-EXT	N/A	6.375"	2-1/2", 3-1/2" & 4-1/2"
Electro/2	ES-II	4.25"	N/A	2-1/2" & 3-1/2"
Electro/2 Extended	ES-EX5	5.125"	N/A	2-1/2", 3-1/2" & 4-1/2"
	ES-EX6	6.375"	N/A	2-1/2", 3-1/2" & 4-1/2"

Bracket System	Model Number	Roll Up With Fascia	Roll Up Without Fascia	Tube Sizes Available
Electro/3	ES-III	2.75"	2.75"	1-3/4" & 2-1/8"
Electro/3 Pocket	ES-3PK	N/A	4.0"	1-3/4" & 2-1/8"
Electro/3 Extended	ES-3EX	3.4375"	5.0"	1-3/4" & 2-1/8"

\* When determining the space required by a specific bracket, factor in both the fascia and roll up diameter of the shadecloth. The roll up diameter for Electro/1 Extended, Electro/2 Extended, Electro/3 Pocket and Electro/3 Extended (without fascia) may extend beyond the bracket dimensions.

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11.11  
MS2200 - 6/1/04



# Shade Height, Tube and Bracket Selector Guide for ElectroShades®

Group C ShadeCloths (Series: 1800 and 5500) .030" thick, average .8465 lbs. per sq. yd.

Weights shown are the hanging weight of the shadeband, expressed in pounds.

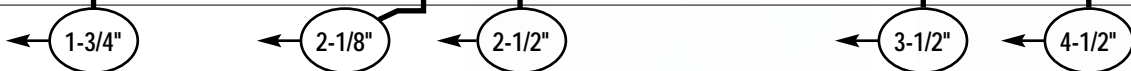
ADD .00925 Lbs. per inch for each Batten required.

## ② Roll Diameter x Opening Height

ADD .125" to the below listed roll up diameters for each batten required. Battens may be required when a shadeband's Width to Height Ratio is equal or greater than a 1:4 ratio or railroaded (landscaped) shadebands over 84" wide.

## ① Tube Size to Accommodate the Shade Weight & Window Span

	84"	96"	108"	120"	126"	132"	144"	156"	168"	180"	192"	204"	216"	228"	240"	HT	1-3/4" Tube	2-1/8" Tube	2-1/2" Tube	3-1/2" Tube	4-1/2" Tube	
H	72"	5.5	6.3	8.5	9.4	9.9	10.3	11.3	12.2	13.2	14.1	15.0	16.0	16.9	17.9	18.8	72"	2.478"	2.790"	3.089"	3.939"	4.879"
	84"	6.2	7.0	9.3	10.3	10.9	11.4	12.4	13.5	14.5	15.5	16.5	17.6	18.6	19.7	20.7	84"	2.569"	2.871"	3.163"	3.997"	4.926"
	96"	6.8	7.8	10.2	11.3	11.9	12.4	13.5	14.7	15.8	16.9	18.1	19.2	20.3	21.4	22.6	96"	2.656"	2.949"	3.234"	4.054"	4.972"
	108"	7.5	8.6	11.0	12.2	12.8	13.5	14.7	15.9	17.1	18.3	19.6	20.8	22.0	23.2	24.4	108"	2.741"	3.026"	3.304"	4.110"	5.018"
E	120"	8.1	9.3	11.9	13.2	13.8	14.5	15.8	17.1	18.4	19.8	21.1	22.4	23.7	25.1	26.3	120"	2.824"	3.101"	3.373"	4.166"	5.063"
	126"	8.5	9.7	12.3	13.6	14.3	15.0	16.4	17.7	19.1	20.5	21.8	23.2	24.5	25.9	27.3	126"	2.864"	3.138"	3.407"	4.193"	5.086"
	132"	8.8	10.1	12.7	14.1	14.8	15.5	16.9	18.3	19.8	21.2	22.6	24.0	25.4	26.8	28.2	132"	2.904"	3.174"	3.440"	4.220"	5.109"
I	144"	9.5	10.8	13.5	15.1	15.8	16.6	18.1	19.6	21.1	22.6	24.1	25.6	27.1	28.6	30.1	144"	2.982"	3.246"	3.506"	4.274"	5.153"
	156"	10.1	11.6	14.4	16.0	16.8	17.6	19.2	20.8	22.4	24.0	25.6	27.2	28.8	30.4	32.0	156"	3.058"	3.315"	3.571"	4.328"	5.198"
G	168"	10.8	12.3	15.2	16.9	17.8	18.6	20.3	22.0	23.7	25.4	27.1	28.8	30.5	32.2		168"	3.132"	3.384"	3.635"	4.380"	5.241"
	180"	11.4	13.1	16.1	17.9	18.8	19.7	21.4	23.2	25.0	26.8	28.6	30.4	32.2	33.9		180"	3.204"	3.451"	3.697"	4.432"	5.285"
	192"	12.1	13.8	16.9	18.8	19.8	20.7	22.6	24.4	26.3	28.2	30.1	32.0	33.9	35.7		192"	3.275"	3.517"	3.759"	4.484"	5.328"
H	204"	12.8	14.6	17.8	19.8	20.7	21.7	23.7	25.7	27.7	29.6	31.6	33.6	35.6	35.5		204"	3.344"	3.581"	3.819"	4.535"	5.371"
	216"	13.4	15.3	18.6	20.7	21.7	22.8	24.8	26.9	29.0	31.0	33.1	35.2	37.2	39.3		216"	3.412"	3.645"	3.879"	4.585"	5.414"
T	228"	14.1	16.1	19.5	21.6	22.7	23.8	26.0	28.1	30.3	32.5	34.6	36.8	38.9	41.1		228"	3.479"	3.707"	3.938"	4.635"	5.456"
	240"	14.7	16.8	20.3	22.6	23.7	24.8	27.1	29.3	31.6	33.9	36.1	38.4	40.6	42.9		240"	3.544"	3.769"	3.995"	4.684"	5.498"
	252"	15.4	17.6	21.2	23.5	24.7	25.9	28.2	30.6	32.9	35.3	37.7	40.0	42.3	44.7		252"	3.608"	3.829"	4.052"	4.733"	5.539"
	264"	16.0	18.3	22.0	24.5	25.7	26.9	29.3	31.8	34.2	36.7	39.1	41.6	44.0	46.5		264"	3.670"	3.888"	4.108"	4.780"	5.580"
	276"	16.7	19.1	22.9	25.4	26.7	27.9	30.5	33.0	35.6	38.1	40.6	43.2	45.7	48.3		276"	3.732"	3.946"	4.163"	4.828"	5.621"
	288"	17.4	19.8	23.7	26.4	27.7	29.0	31.6	34.2	36.9	39.5	42.1	44.8	47.4	50.0		288"	3.793"	4.004"	4.218"	4.875"	5.662"
	300"	18.0	20.6	24.6	27.3	28.7	30.0	32.7	35.5	38.2	40.9	43.6	46.4	49.1		300"	3.853"	4.061"	4.272"	4.922"	5.702"	



The above Diameters include the following amount of wrap:  
 8-1/2"    10"    10-1/2"    13-1/2"    21"

## ③ Bracket Selection For larger size shades (up to 50' x 50'++) contact MechoShade Systems, Inc. technical or estimating departments.

Bracket System	Model Number	Roll Up With Fascia	Roll Up Without Fascia	Tube Sizes Available
Electro®/1	ES-I	N/A	4.25"	2-1/2" & 3-1/2"
Electro/1 Extended	ES-EXT	N/A	6.375"	2-1/2", 3-1/2" & 4-1/2"
Electro/2	ES-II	4.25"	N/A	2-1/2" & 3-1/2"
Electro/2 Extended	ES-EX5	5.125"	N/A	2-1/2", 3-1/2" & 4-1/2"
	ES-EX6	6.375"	N/A	2-1/2", 3-1/2" & 4-1/2"

Bracket System	Model Number	Roll Up With Fascia	Roll Up Without Fascia	Tube Sizes Available
Electro/3	ES-III	2.75"	2.75"	1-3/4" & 2-1/8"
Electro/3 Pocket	ES-3PK	N/A	4.0"	1-3/4" & 2-1/8"
Electro/3 Extended	ES-3EX	3.4375"	5.0"	1-3/4" & 2-1/8"

\* When determining the space required by a specific bracket, factor in both the fascia and roll up diameter of the shadecloth. The roll up diameter for Electro/1 Extended, Electro/2 Extended, Electro/3 Pocket and Electro/3 Extended (without fascia) may extend beyond the bracket dimensions.

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11.12  
MS2200 - 6/1/04



# Shade Height, Tube and Bracket Selector Guide for ElectroShades®

Group D ShadeCloths (Series: 5100, 5200, 5300, 6000 and 6300) .024" thick, average .9 lbs. per sq. yd.

Weights shown are the hanging weight of the shadeband, expressed in pounds.

ADD .00925 Lbs. per inch for each Batten required.

## ② Roll Diameter x Opening Height

ADD .125" to the below listed roll up diameters for each batten required. Battens may be required when a shadeband's Width to Height Ratio is equal or greater than a 1:4 ratio or railroaded (landscaped) shadebands over 84" wide.

## ① Tube Size to Accommodate the Shade Weight & Window Span

	84"	96"	108"	120"	126"	132"	144"	156"	168"	180"	192"	204"	216"	228"	240"	HT	1-3/4" Tube	2-1/8" Tube	2-1/2" Tube	3-1/2" Tube	4-1/2" Tube
H 72"	5.8	6.6	8.8	9.8	10.3	10.7	11.7	12.7	13.7	14.6	15.6	16.6	17.6	18.5	19.5	72"	2.350"	2.675"	2.985"	3.855"	4.806"
84"	6.5	7.4	9.7	10.8	11.3	11.8	12.9	14.0	15.1	16.1	17.2	18.3	19.4	20.4	21.5	84"	2.427"	2.743"	3.046"	3.903"	4.844"
96"	7.2	8.2	10.6	11.8	12.4	12.9	14.1	15.3	16.5	17.6	18.8	20.0	21.2	22.3	23.5	96"	2.501"	2.804"	3.108"	3.949"	4.881"
H 108"	7.9	9.0	11.5	12.8	13.4	14.0	15.3	16.6	17.9	19.1	20.4	21.7	23.0	24.2	25.5	108"	2.574"	2.873"	3.164"	3.996"	4.919"
120"	8.6	10.0	12.4	13.8	14.5	15.1	16.5	17.9	19.3	20.6	22.0	23.4	24.8	26.1	27.5	120"	2.644"	2.936"	3.222"	4.041"	4.956"
126"	8.9	10.2	12.8	14.3	15.0	15.7	17.1	18.5	20.0	21.4	22.8	24.2	25.7	27.1	28.5	126"	2.679"	2.968"	3.250"	4.064"	4.974"
E 132"	9.3	10.6	13.3	14.8	15.5	16.2	17.7	19.2	20.7	22.1	23.6	25.1	26.6	28.1	29.5	132"	2.713"	2.998"	3.278"	4.086"	4.993"
144"	10.0	11.4	14.2	15.8	16.6	17.3	18.9	20.5	22.1	23.6	25.2	26.8	28.4	29.9	31.5	144"	2.779"	3.059"	3.334"	4.131"	5.029"
I 156"	10.7	12.2	15.1	16.8	17.6	18.4	20.1	21.8	23.5	25.1	26.8	28.5	30.2	31.8		156"	2.845"	3.118"	3.388"	4.175"	5.066"
168"	11.4	13.0	16.0	17.8	18.7	19.5	21.3	23.1	24.9	26.6	28.4	30.2	32.0	33.7		168"	2.908"	3.177"	3.442"	4.219"	5.102"
180"	12.1	13.8	16.9	18.8	19.7	20.6	22.5	24.4	26.3	28.1	30.0	31.9	33.8	35.6		180"	2.971"	3.234"	3.495"	4.262"	5.138"
G 192"	12.8	14.6	17.8	19.8	20.1	21.7	23.7	25.7	27.7	29.6	31.6	33.6	35.6	37.5		192"	3.032"	3.290"	3.547"	4.305"	5.173"
204"	13.5	15.4	18.7	20.8	21.8	22.8	24.9	27.0	29.1	31.1	33.2	35.3	37.4	39.4		204"	3.092"	3.345"	3.598"	4.347"	5.209"
216"	14.2	16.2	19.6	21.8	22.9	23.9	26.1	28.3	30.5	32.6	34.8	37.0	39.2	41.3		216"	3.151"	3.400"	3.649"	4.389"	5.244"
H 228"	14.9	17.0	20.5	22.8	23.9	25.0	27.3	29.6	31.9	34.1	36.4	38.7	41.0	43.2		228"	3.208"	3.453"	3.699"	4.431"	5.279"
240"	15.6	17.8	21.4	23.8	25.0	26.1	28.5	30.1	33.3	35.6	38.0	40.4	42.8	45.1		240"	3.265"	3.506"	3.748"	4.472"	5.313"
252"	16.3	18.6	22.3	24.8	26.0	27.2	29.7	32.2	34.7	37.1	39.6	42.1	44.6	47.0		252"	3.321"	3.558"	3.797"	4.513"	5.348"
T 264"	17.0	19.4	23.2	25.8	27.1	28.3	30.9	33.5	36.1	38.6	41.2	43.8	46.4	48.9		264"	3.375"	3.609"	3.845"	4.553"	5.382"
276"	17.7	20.2	24.1	26.8	28.1	29.4	32.1	34.8	37.5	40.1	42.8	45.5	48.2		276"	3.429"	3.660"	3.892"	4.594"	5.416"	
288"	18.4	21.0	25.0	27.8	29.2	30.5	33.3	36.1	38.9	41.6	44.4	47.2	50.0		288"	3.482"	3.709"	3.939"	4.633"	5.449"	
300"	19.1	21.8	25.9	28.8	30.2	31.6	34.5	37.4	40.3	43.1	46.0	48.9	51.8		300"	3.535"	3.758"	3.985"	4.673"	5.483"	



The above Diameters include the following amount of wrap:  
 8-1/2"    10"    10-1/2"    13-1/2"    21"

## ③ Bracket Selection For larger size shades (up to 50' x 50'++) contact MechoShade Systems, Inc. technical or estimating departments.

Bracket System	Model Number	Roll Up With Fascia	Roll Up Without Fascia	Tube Sizes Available
Electro®/1	ES-I	N/A	4.25"	2-1/2" & 3-1/2"
Electro/1 Extended	ES-EXT	N/A	6.375"	2-1/2", 3-1/2" & 4-1/2"
Electro/2	ES-II	4.25"	N/A	2-1/2" & 3-1/2"
Electro/2 Extended	ES-EX5	5.125"	N/A	2-1/2", 3-1/2" & 4-1/2"
	ES-EX6	6.375"	N/A	2-1/2", 3-1/2" & 4-1/2"

Bracket System	Model Number	Roll Up With Fascia	Roll Up Without Fascia	Tube Sizes Available
Electro/3	ES-III	2.75"	2.75"	1-3/4" & 2-1/8"
Electro/3 Pocket	ES-3PK	N/A	4.0"	1-3/4" & 2-1/8"
Electro/3 Extended	ES-3EX	3.4375"	5.0"	1-3/4" & 2-1/8"

\* When determining the space required by a specific bracket, factor in both the fascia and roll up diameter of the shadecloth. The roll up diameter for Electro/1 Extended, Electro/2 Extended, Electro/3 Pocket and Electro/3 Extended (without fascia) may extend beyond the bracket dimensions.

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11.13  
MS2200 - 6/104



# Shade Height, Tube and Bracket Selector Guide for ElectroShades®

Group E Blackout ShadeCloths (Series: 0900) .016" thick, .875 lbs. per sq. yd.

Weights shown are the hanging weight of the shadeband, expressed in pounds.

ADD .00925 Lbs. per inch for each Batten required and DEDUCT .0004 Lbs. per inch if an Exposed Hembar is required.

## ② Roll Diameter x Opening Height

ADD .125" to the below listed roll up diameters for each batten required. Battens may be required when a shadeband's Width to Height Ratio is equal or greater than a 1:4 ratio or railroaded (landscaped) shadebands over 84" wide.

## ① Tube Size to Accommodate the Shade Weight & Window Span

	84"	96"	108"	120"	126"	132"	144"	156"	168"	180"	192"	204"	216"	228"	240"	HT	1-3/4" Tube	2-1/8" Tube	2-1/2" Tube	3-1/2" Tube	4-1/2" Tube	
H	72"	5.6	6.4	8.6	9.6	10.1	10.6	11.5	12.5	13.4	14.4	15.4	16.3	17.3	18.2	19.2	72"	2.169"	2.514"	2.841"	3.741"	4.706"
	84"	6.3	7.2	9.5	10.6	11.1	11.6	12.7	13.7	14.8	15.9	16.9	18.0	19.0	20.1	21.3	84"	2.224"	2.562"	2.884"	3.773"	4.732"
	96"	7.0	8.0	10.4	11.5	12.1	12.7	13.8	15.0	16.2	17.3	18.5	19.6	20.8	21.9	23.1	96"	2.278"	2.609"	2.926"	3.805"	4.757"
E	108"	7.7	8.8	11.3	12.5	13.1	13.8	15.0	16.3	17.5	18.8	20.0	21.3	22.5	23.8	25.0	108"	2.331"	2.656"	2.967"	3.837"	4.783"
	120"	8.4	9.6	12.1	13.5	14.2	14.8	16.2	17.5	18.9	20.2	21.6	22.9	24.3	25.6	27.1	120"	2.383"	2.701"	3.008"	3.869"	4.809"
	126"	8.7	9.9	12.6	14.0	14.7	15.4	16.8	18.2	19.6	21.0	22.4	23.8	25.1	26.5	27.9	126"	2.409"	2.724"	3.028	3.885"	4.821"
I	132"	9.0	10.3	13.0	14.5	15.2	15.9	17.3	18.8	20.2	21.7	23.1	24.6	26.0	27.5	28.9	132"	2.434"	2.746"	3.049"	3.901"	4.834"
	144"	9.7	11.1	13.9	15.4	16.2	17.0	18.5	20.0	21.6	23.1	24.7	26.2	27.8	29.3	30.9	144"	2.484"	2.790"	3.088"	3.932"	4.859"
G	156"	10.4	11.9	14.8	16.4	17.2	18.0	19.7	21.3	23.0	24.6	26.2	27.9	29.5	31.2	32.8	156"	2.533"	2.834"	3.128"	3.963"	4.884"
	168"	11.1	12.7	15.6	17.4	18.2	19.1	20.8	22.6	24.3	26.0	27.8	29.5	31.3	33.0		168"	2.580"	2.877"	3.167"	3.993"	4.909"
H	180"	11.8	13.4	16.5	18.3	19.3	20.2	22.0	23.9	25.7	27.5	29.4	31.2	33.0	34.9		180"	2.627"	2.919"	3.205"	4.024"	4.934"
	192"	12.4	14.2	17.4	19.3	20.3	21.3	23.2	25.1	27.0	29.0	30.9	32.8	34.8	36.7		192"	2.673"	2.960"	3.243"	4.054"	4.959"
T	204"	13.1	15.0	18.3	20.3	21.3	22.3	24.3	26.4	28.4	30.4	32.5	34.5	36.5	38.6		204"	2.719"	3.001"	3.280"	4.084"	4.983"
	216"	13.8	15.8	19.1	21.3	22.3	23.4	25.5	27.6	29.8	31.8	34.0	36.1	38.3	40.4		216"	2.763"	3.042"	3.317"	4.114"	5.008"
	228"	14.5	16.6	20.0	22.2	23.3	24.5	26.7	28.9	31.1	33.4	35.6	37.8	40.0	42.2		228"	2.807"	3.082"	3.354"	4.144"	5.032"
	240"	15.2	17.3	20.9	23.2	24.4	25.5	27.8	30.2	32.5	34.8	37.1	39.4	41.8	44.1		240"	2.850"	3.121"	3.390"	4.173"	5.056"
	252"	15.9	18.1	21.8	24.2	25.4	26.6	29.0	31.4	33.9	36.3	38.7	41.1	43.5	45.9		252"	2.893"	3.160"	3.426"	4.202"	5.081"
	264"	16.5	18.9	22.6	25.2	26.4	27.7	30.2	32.7	35.2	37.7	40.2	42.8	45.3	47.8		264"	2.935"	3.198"	3.462"	4.231"	5.105"
	276"	17.2	19.7	23.5	26.1	27.4	28.7	31.3	34.0	36.6	39.2	41.8	44.4	47.0	49.6		276"	2.976"	3.236"	3.497"	4.260"	5.128"
	288"	17.9	20.4	24.4	27.1	28.5	29.8	32.5	35.2	37.9	40.6	43.4	46.1	48.8		288"	3.017"	3.274"	3.532"	4.289"	5.152"	
	300"	18.6	21.2	25.3	28.1	29.5	30.9	33.7	36.5	39.3	42.1	44.9	47.7	50.5		300"	3.057"	3.311"	3.566"	4.317"	5.176"	



The above Diameters include the following amount of wrap:  
 8-1/2" 10" 10-1/2" 13-1/2" 21"

## ③ Bracket Selection For larger size shades (up to 50' x 50' ++ ) contact MechoShade Systems, Inc. technical or estimating departments.

Bracket System	Model Number	Roll Up With Fascia	Roll Up Without Fascia	Tube Sizes Available
Electro®/1	ES-I	N/A	4.25"	2-1/2" & 3-1/2"
Electro/1 Extended	ES-EXT	N/A	6.375"	2-1/2", 3-1/2" & 4-1/2"
Electro/2	ES-II	4.25"	N/A	2-1/2" & 3-1/2"
Electro/2 Extended	ES-EX5	5.125"	N/A	2-1/2", 3-1/2" & 4-1/2"
	ES-EX6	6.375"	N/A	2-1/2", 3-1/2" & 4-1/2"

Bracket System	Model Number	Roll Up With Fascia	Roll Up Without Fascia	Tube Sizes Available
Electro/3	ES-III	2.75"	2.75"	1-3/4" & 2-1/8"
Electro/3 Pocket	ES-3PK	N/A	4.0"	1-3/4" & 2-1/8"
Electro/3 Extended	ES-3EX	3.4375"	5.0"	1-3/4" & 2-1/8"

\* When determining the space required by a specific bracket, factor in both the fascia and roll up diameter of the shadecloth. The roll up diameter for Electro/1 Extended, Electro/2 Extended, Electro/3 Pocket and Electro/3 Extended (without fascia) may extend beyond the bracket dimensions.

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MS2200 - 6/104



# Shade Height, Tube and Bracket Selector Guide for ElectroShades®

Group F Equinox™ ShadeCloths (Series: 0100) .0216" thick, .793 lbs. per sq. yd.

Weights shown are the hanging weight of the shadeband, expressed in pounds.

ADD .00925 Lbs. per inch for each Batten required and DEDUCT .0004 Lbs. per inch if an Exposed Hembar is required.

## ② Roll Diameter x Opening Height

ADD .125" to the below listed roll up diameters for each batten required. Battens may be required when a shadeband's Width to Height Ratio is equal or greater than a 1:4 ratio or railroded (landscaped) shadebands over 84" wide.

## ① Tube Size to Accommodate the Shade Weight & Window Span

	84"	96"	108"	120"	126"	132"	144"	156"	168"	180"	192"	HT	1-3/4" Tube	2-1/8" Tube	2-1/2" Tube	3-1/2" Tube	4-1/2" Tube	
H	72"	5.2	6.0	8.2	9.1	9.5	10.0	10.9	11.8	12.7	13.7	14.5	72"	2.30"	2.63"	2.94"	3.82"	4.78"
	84"	5.8	6.7	9.0	10.0	10.5	11.0	12.0	12.9	14.0	15.0	16.0	84"	2.37"	2.69"	3.00"	3.86"	4.81"
	96"	6.4	7.4	9.8	10.9	11.4	12.0	13.1	14.1	15.3	16.4	17.4	96"	2.44"	2.75"	3.05"	3.91"	4.84"
E	108"	7.1	8.1	10.6	11.7	12.4	13.0	14.2	15.2	16.5	17.7	18.9	108"	2.50"	2.81"	3.11"	3.95"	4.88"
	120"	7.7	8.8	11.4	12.6	13.3	14.0	15.2	16.4	17.8	19.1	20.3	120"	2.57"	2.87"	3.16"	3.99"	4.91"
	126"	8.0	9.2	11.7	13.0	13.7	14.3	15.6	16.9	18.2	19.5	20.8	126"	2.60"	2.90"	3.19"	4.01"	4.93"
I	132"	8.3	9.5	12.0	13.2	13.9	14.7	15.8	17.5	18.7	20.1	21.4	132"	2.63"	2.92"	3.21"	4.03"	4.95"
	144"	8.9	10.2	12.8	14.1	14.9	15.7	16.9	18.6	20.0	21.4	22.8	144"	2.69"	2.98"	3.26"	4.07"	4.98"
	156"	9.5	10.9	13.6	15.0	15.8	16.7	18.0	19.8	21.2	22.8		156"	2.75"	3.04"	3.31"	4.11"	5.01"
G	168"	10.1	11.5	14.4	15.9	16.7	17.7	19.1	20.9	22.5	24.1		168"	2.81"	3.09"	3.36"	4.15"	5.04"
	180"	10.7	12.2	15.2	16.8	17.7	18.7	20.1	22.1	23.7	25.5		180"	2.87"	3.14"	3.41"	4.19"	5.08"
	192"	11.3	12.9	16.0	17.7	18.6	19.7	21.2	23.2	25.0	26.8		192"	2.93"	3.19"	3.46"	4.23"	5.11"
H	204"	11.9	13.6	16.8	18.6	19.5	20.7	22.3	24.4	26.3	28.2		204"	2.98"	3.25"	3.51"	4.27"	5.14"
	216"	12.5	14.3	17.6	19.5	20.5	21.7	23.4	25.5	27.5	29.5		216"	3.04"	3.30"	3.55"	4.31"	5.17"
	228"	13.1	15.0	18.4	20.4	21.4	22.7	24.5	26.7	28.8	30.9		228"	3.09"	3.35"	3.60"	4.35"	5.21"
T	240"	13.8	15.7	19.2	21.3	22.4	23.7	25.5	27.8	30.1	32.2		240"	3.15"	3.39"	3.64"	4.38"	5.24"
	252"	14.4	16.4	20.0	22.1	23.3	24.7	26.6	29.0	31.3	33.6		252"	3.20"	3.44"	3.69"	4.42"	5.27"
	264"	15.0	17.1	20.8	23.0	24.2	25.7	27.7	30.1	32.6	34.9		264"	3.25"	3.49"	3.73"	4.46"	5.30"
T	276"	15.6	17.8	21.6	23.9	25.2	26.7	28.8	31.3	33.8	36.3		276"	3.30"	3.54"	3.78"	4.50"	5.33"
	288"	16.2	18.5	22.4	24.8	26.1	27.7	29.8	32.4	35.1	37.6		288"	3.35"	3.58"	3.82"	4.53"	5.36"
	300"	16.8	19.2	23.2	25.7	27.1	28.7	30.9	33.6	36.4	39.0		300"	3.40"	3.63"	3.86"	4.57"	5.39"

The above Diameters include the following amount of wrap:  
 8-1/2"    10"    10-1/2"    13-1/2"    21"

## ③ Bracket Selection For larger size shades (up to 50' x 50'++) contact MechoShade Systems, Inc. technical or estimating departments.

Bracket System	Model Number	Roll Up With Fascia	Roll Up Without Fascia	Tube Sizes Available
Electro®/1	ES-I	N/A	4.25"	2-1/2" & 3-1/2"
Electro/1 Extended	ES-EXT	N/A	6.375"	2-1/2", 3-1/2" & 4-1/2"
Electro/2	ES-II	4.25"	N/A	2-1/2" & 3-1/2"
Electro/2 Extended	ES-EX5	5.125"	N/A	2-1/2", 3-1/2" & 4-1/2"
	ES-EX6	6.375"	N/A	2-1/2", 3-1/2" & 4-1/2"

Bracket System	Model Number	Roll Up With Fascia	Roll Up Without Fascia	Tube Sizes Available
Electro/3	ES-III	2.75"	2.75"	1-3/4" & 2-1/8"
Electro/3 Pocket	ES-3PK	N/A	4.0"	1-3/4" & 2-1/8"
Electro/3 Extended	ES-3EX	3.4375"	5.0"	1-3/4" & 2-1/8"

\* When determining the space required by a specific bracket, factor in both the fascia and roll up diameter of the shadecloth. The roll up diameter for Electro/1 Extended, Electro/2 Extended, Electro/3 Pocket and Electro/3 Extended (without fascia) may extend beyond the bracket dimensions.

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# WindowWords

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## Fenestration

Originally, the arrangement of windows in a building. Now, windows, glazing, and shading devices.

## Solar-optical properties

The transmittance, reflectance, and absorptance of glazing materials for solar radiation.

## Visible light transmittance

That portion of the solar spectrum which is visible to the human eye. Too much Visible Light Transmittance creates brightness and glare problems within the room. Visible light transmittance must be a primary consideration when selecting a sunscreen shade cloth.

## Solar heat gain

The amount of heat admitted through fenestration due to transmitted radiation and the inward flow of absorbed radiation.

## (SC) Shading Coefficient:

The percentage of solar heat gain that passes through a combination of glass and screen. A lower shading coefficient means lower heat gain (better thermal performance). When used on the interior, light colors have lower shading coefficients than dark colors. Thus, light colors outperform dark colors. A lower shading coefficient equals lower heat gain. [ i.e. SC .60 = 60% relative solar heat gain; SC .45 = 45% relative solar heat gain.

When these same fabrics are used on the exterior, this performance is reversed. For exterior shading, dark colors have the lower coefficient and thus outperform light colors. An explanation for this is that the lighter colors do not reflect heat away from the window, but reflect a substantial percentage back into the building as well.

## (Rs) Solar Reflectance:

The percentage of the amount of solar energy which is reflected or bounces off the screening material. Light colors are more reflective with lower heat gain and shading coefficients, but with a higher percentage of daylight and solar transmittance. Light colors, however, are brighter when sunlit which causes high surface brightness (bare light bulb syndrome) and may transmit excessive, debilitating light onto computer screens and work stations.

## (As) Solar Absorptance:

The percentage of the amount of solar energy which is absorbed by the screen or shade cloth. Dark colors absorb light and heat, and are less energy efficient than lighter colors. They transmit less light and have a lower surface brightness which lowers reflectivity and provides excellent glare-free environments for CRTs and work stations.

## (Ts) Solar Transmittance:

The percentage of ultraviolet, visible and near infrared energy that is transmitted through the glass.

## Openness Factor

The openness factor (OF) is the density of a sun screen shade cloth's weave. To assure personal comfort near the window wall, it is necessary to control the direct solar radiant energy (sunshine) that penetrates the glass / shade combination. This is accomplished with proper selection of fabric density in conjunction with visible light transmittance of the glass.

## Wave length

The distance between successive peaks or valleys of radiation waves; measurement is in millionth of a meter.

## U-Value

A measurement of the conductive inward or outward heat flow expressed as a percentage.

## Emittance

The ability to give off radiant energy when compared to a perfect absorber. Different materials emit stored energy at different temperatures. Shade cloths emit much lower temperatures than polished aluminum or satin aluminum finishes.

## Long wave emittance

Long wave emittance is sensible heat which heats the air.

## White and dark surfaces

Most shade cloth surfaces have a high long-wave emittance. Light colored fabric surfaces will reflect more short-wave solar radiation and therefore absorb less. Dark colored fabric surfaces will absorb more short-wave radiation and reflect less.

## E.S.I

Equivalent Sphere Illumination provided by luminous hemisphere.

## Solar altitude

The angular distance of the sun above the horizon.

## Solar azimuth

The angular distance from the south of the horizontal projection of the earth-sun line.

## Window management

The control of the admission of heat and light through fenestration by means of adjustable shading devices.

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