



# GLASS INSULATORS

"Quality I.G.'s"

## MILL ALUMINUM BOX SPACER

BACKED WITH  
POLYISOBUTYLENE

&

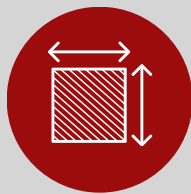
POLYSULFIDE



## SPACER

### WIDTHS (MM)

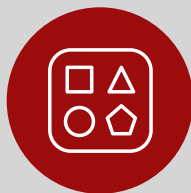
- 3/4 (19.2 mm)
- 11/16 (17.5 mm)
- 5/8 (15.5 mm)
- 9/16 (14.3 mm)
- 1/2 (12.5 mm)
- 15/32 (11.5 mm)
- 7/16 (11.2 mm)
- 3/8 (9.5 mm)
- 5/16 (7.5 mm)
- 1/4 (6.5 mm)



### DIMENSION CAPABILITY

Minimum Dimension: 4 x 7 (inches)

Maximum Dimension: 72 x 120 (inches)/35 sqft



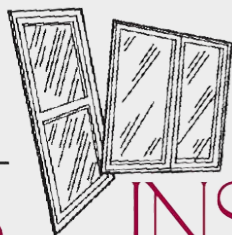
### SHAPES AVAILABLE

Rectangular shapes are available.

# Aluminum Spacer Thermal Values

	Dual Pane		
	U-Factor	Sightline Temp (F)	1/2" Temp (F)
<b>366/Clr</b>	0.280	33.6	45.1
<b>366/189</b>	0.245	30.0	37.9
<b>270/Clr</b>	0.283	33.4	44.8
<b>270/189</b>	0.247	30.0	37.8
<b>180/Clr</b>	0.291	33.3	44.6
<b>180/189</b>	0.252	29.7	37.4

*Modeled using 3mm glass with a 1/2" nominal space and 90% argon fill.  
Simulations modeled in accordance with NFRC 100-200.  
Modeled in a Vinyl Casement Frame.*



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## TREMCO ENEREDGE SILICONE FOAM SPACER

BACKED  
WITH HOT  
MELT BUTYL  
SEALANT

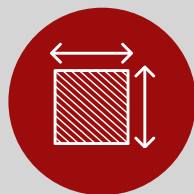


## SPACER

### WIDTHS

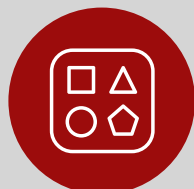
#### **Black**      **Medium Grey**

- 1/4
- 5/16
- 3/8
- 7/16
- 1/2
- 9/16
- 5/8
- 11/16
- 3/4
- 7/16
- 9/16
- 5/8



### DIMENSION CAPABILITY

Minimum Dimension: 14 x 20 inches  
(automated) or 5 x 7 inches (manual)  
Maximum Dimension: 72 x 90 (inches)/40 sqft



### SHAPES AVAILABLE

Rectangular shapes and radius shapes  
are available.

# Silicone Foam Spacer Thermal Values

	Dual Pane			Standard Triple Pane		
	U-Factor	Sightline Temp (F)	1/2" Temp (F)	U-Factor	Sightline Temp (F)	1/2" Temp (F)
<b>366/Clr</b>	0.257	43.5	49.8	0.174	52.3	56.8
<b>366/189</b>	0.226	39.9	43.3	0.163	48.9	51.4
<b>270/Clr</b>	0.261	43.3	49.6	0.175	52.2	56.5
<b>270/189</b>	0.229	39.7	43.2	0.164	48.7	51.3
<b>180/Clr</b>	0.268	43.30	49.1	0.178	52.2	56.5
<b>180/189</b>	0.234	39.4	42.6	0.166	48.7	51.1

*Modeled using 3mm glass with a 1/2" nominal space and 90% argon fill.  
 Simulations modeled in accordance with NFRC 100-200.  
 Modeled in a Vinyl Casement Frame.*





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## PDS T17 STAINLESS SPACER

BACKED WITH  
POLYISOBUTYLENE



SILICONE



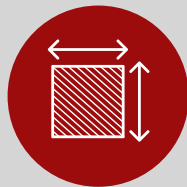
### SPACER WIDTHS (MM)

#### Black

- 9.35
- 10.95
- 11.9
- 12.75
- 13.95
- 15.25

#### Grey

- 9.35
- 10.1
- 10.95
- 12.75
- 13.95
- 15.25
- 19.05

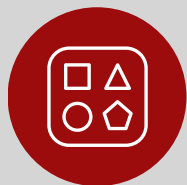


### DIMENSION CAPABILITY

Minimum Dimension: 14 x 20 (inches)

Maximum Dimension: 72 x 96 (inches)

Smaller dimensions available offline for an upcharge.



### SHAPES/FEATURES AVAILABLE

Rectangles only.

Custom logo and protective film are available.

# Stainless Steel Spacer Thermal Values

	Dual Pane			Standard Triple Pane			Slit Spacer Triple Pane		
	U-Factor	Sightline Temp (F)	1/2" Temp (F)	U-Factor	Sightline Temp (F)	1/2" Temp (F)	U-Factor	Sightline Temp (F)	1/2" Temp (F)
<b>366/Clr</b>	0.258	42.6	48.6	0.175	51.8	56.5	0.176	51.4	56.1
<b>366/189</b>	0.227	39.0	42.4	0.164	48.4	51.1	0.165	47.8	50.7
<b>270/Clr</b>	0.261	42.4	48.4	0.176	51.6	56.3	0.177	51.3	56.1
<b>270/189</b>	0.229	28.8	42.3	0.165	48.2	51.1	0.166	47.8	50.7
<b>180/Clr</b>	0.269	42.3	48.0	0.179	51.4	56.3	0.180	51.3	55.9
<b>180/189</b>	0.235	38.5	41.7	0.167	48.0	50.9	0.168	47.7	50.5

## Dual Pane

*Modeled using 3mm glass with a 1/2" nominal space and 97% argon fill.  
 Simulations modeled in accordance with NFRC 100-200.  
 Modeled in a Vinyl Casement Frame.*

## Triple Pane

*Modeled using 3mm glass with a 1/2" nominal space and 95% argon fill.  
 Simulations modeled in accordance with NFRC 100-200.  
 Modeled in a Vinyl Casement Frame.*



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## STOCKED GLASS

ALL CARDINAL LOW E COATINGS ARE AVAILABLE BY SPECIAL ORDER IF NOT STOCKED. ADDITIONAL PATTERN GLASS IS ALSO AVAILABLE BY SPECIAL ORDER.



## TEMPERING CAPABILITIES

### Internal:

- 3.1, 3.9, 4.7, 5.7 mm transparent (clear, low e, tint)
- 3.1 mm medium depth pattern
- Minimum dimension of 3 x 5
- Maximum dimension of 40 x 80

### External:

- 3.1, 3.9, 4.7, 5.7 mm, 3/8", 1/2" available in various glass options

## GLASS TYPES

### 2.2MM

- Clear
- Coatings: 272

### 3.0MM

- Clear
- Coatings: 272, 270, 270 NEAT, i89, 366
- Tints: Gray, Bronze
- Patterns: Rain, Pattern 62, Frosted Satin

### 3.1MM

- Clear

### 3.2MM

- Midnight Gray

### 3.9MM

- Clear
- Coatings: 272, 270, i89, 366

### 4.7MM

- Clear
- Coatings: 272, 270, i89, 366

### 5.7mm

- Clear
- Coatings: 270, i89, 366
- Tints: Bronze



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# MUNTIN

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### COLORS

#### 3/16 x .610 Internal Muntin

- Standard White
- Bright White
- Bronze
- Champagne
- Tan
- Black
- Black/White
- Chestnut/White
- Amber/White
- Amber/Tan
- Dark Oak/Tan
- Light Oak/White

#### 5.5 x 18mm Contour Internal Muntin

- White
- Tan
- Bronze
- Savannah (Light Bronze)

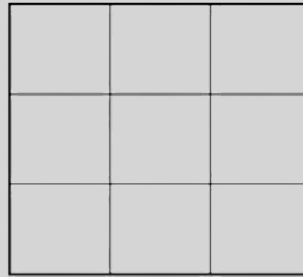
#### .325 x .875 Internal SDL Muntin

- Black
- Mill Finish

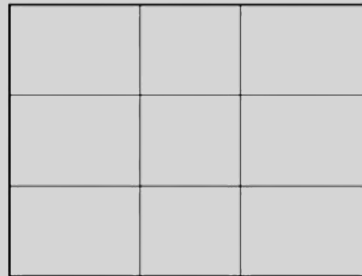
#### .325 x .625 Internal SDL Muntin

- Black
- Mill Finish

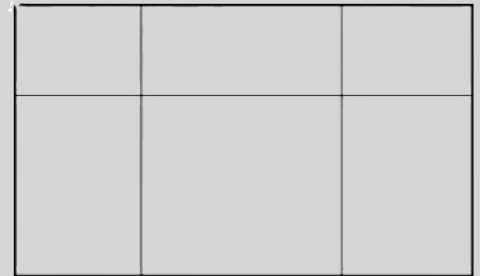
## AVAILABLE GRID PATTERNS



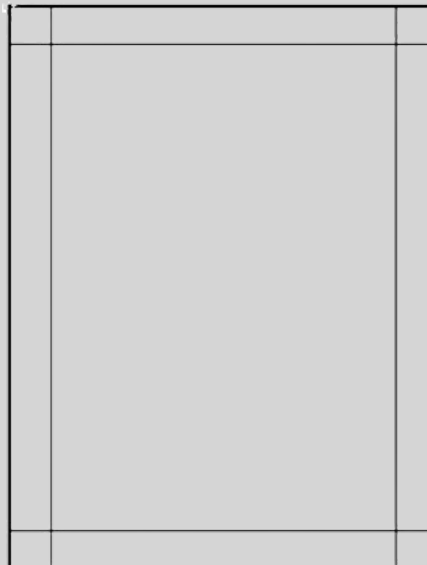
ORIOLE GRID



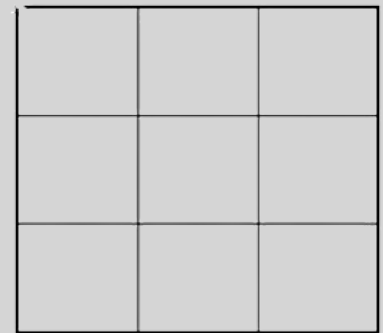
FRENCH GRID



COLONIAL GRID



PRAIRIE GRID



PLAZA GRID