## CALCULATE A CUSTOM SCREEN SIZE

### How to Calculate a Custom Screen Size

Use the following formulas to calculate a custom size. These formulas will assist you in finding the viewing area only.

**NTSC (1.33)**
**Video Format**
Diagonal/1.667=Height
Height X 1.33=Width
Width/1.33=Height
Height X 1.667 = Diagonal

**HDTV (1.78)**
**Format**
Diagonal X 0.49091=Height
Diagonal X 0.87247=Width
Height X 2.0395=Diagonal
Width X 1.14585=Diagonal
Height X 1.78=Width
Width X 0.561837=Height

**Letterbox (1.85)**
**Format**
Diagonal X 0.4762=Height
Diagonal X 0.8800=Width
Height X 2.100=Diagonal
Width X 1.135=Diagonal
Height X 1.85=Width
Width X 0.5405=Height

**Cinemascope (2.35)**
**Format**
Diagonal X .3916=Height
Diagonal X .9209=Width
Height X 2.554=Diagonal
Width X 1.0868=Diagonal
Height X 2.35=Width
Width X .4255=Height

**SXGA (1.25)**
**Format**
Diagonal X 0.625=Height
Diagonal X 0.78125=Width
Height X 1.60=Diagonal
Width X 1.28=Diagonal
Height X 1.25=Width
Width X 0.80=Height

### Screen Borders and Drop

Black masking borders are standard on most Da-Lite front projection screens at no extra charge. Borders enhance the perceived brightness of an image on a screen. The human eye perceives the image to have more contrast and a sharper picture with brighter colors. Borders also allow the projected image to "bleed-off" the screen for professional appearing presentations.

Drop is also available on most Da-Lite wall, ceiling and electric screens. Drop is the term used for extra fabric added to the top or bottom of the screen to adjust the screen surface to within normal viewing heights. Drop can be specified in either black or white.

*Note: Tensioned electric screens are standard with 12" black drop at the top in all sizes.*