

**Key Decision Factors** (Compare Carl's Projector Screen Material Options – Raw Material)

Material Options	Viewing Environment	Specialty Specifications	Screen Mounting	Outdoor Use/Portable
Ambient Light Rejecting (ALR)	Dark - High Ambient Light (Most Versatile for Lighting Conditions)	High Performance in Dark to Brightly Lit Indoor Environments, Rich Contrast, Detail & Color, Capable of HD & 4K, Active and Passive 3D, Bright Projector Preferred	Tension-Mount/Stretch Tight	Not Recommended
FlexiGray	Low Light	Capable of HD, Bright Projector Preferred	Tension-Mount/Stretch Tight	Yes! Mildew Resistant
FlexiWhite	Dark Environment	Capable of HD & Active 3D	Tension-Mount/Stretch Tight	Yes! Mildew Resistant
ProGray	Low Light	Upgrade over Blackout Cloth, Bright Projector Preferred	Wall Mount or Roll Down, Non-Tensioned	Not Recommended
ProWhite	Dark Environment	Brighter, Clearer Image over Blackout Cloth	Wall Mount or Roll Down, Non-Tensioned	Not Recommended
Gray Rear Projection Film	Dark - Low Light	Rear Projection, Narrow Viewing Angle, Bright Projector Preferred	Tension-Mount/Stretch Tight	Yes! Mildew Resistant
White Rear Projection Film	Dark Environment	Rear or Front Projection, Wider Viewing Angle	Tension-Mount/Stretch Tight	Yes! Mildew Resistant
Blackout Cloth	Dark Environment	Budget-Conscience, Entry Level	Tension-Mount/Stretch Tight	Ok, with care.
SheerWeave	Dark Environment	Acoustically Transparent	Non-Tensioned	Not Recommended
SilverScreen for Passive 3D	Dark - Low Light	(2) Passive 3D Projectors	Tension-Mount/Stretch Tight	Ok, with care.

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### 1. Lighting Considerations

Ambient light is any light that exists in your viewing environment. It may be indoor lighting or street lights, etc. If you have a dark room where the lights can be turned off we call this controlled light versus dealing with a street lamp, for example, which you may not have control over. An example of a dark viewing environment is a movie theater, low light might be a small light coming from the next room and high ambient light would be a light on in the same room as your screen.

Unfortunately, none of our materials are meant for full sunlight.

Generally speaking, the darker you can get your viewing environment the better the results. We recommend using white projector screen materials for dark environments & gray projector screen materials for environments with low ambient light concerns. You will not need gray if you have a dark viewing environment. Gray only provides additional contrast if you have ambient light concerns.

If wish to begin the movie at dusk/sunset and your only ambient light concern is 20 minutes of viewing time at dusk, go with white. If you will experience ambient light throughout the entire movie, even after the sun goes down, go with gray.

Always choose the material that will be best for the majority of your viewing.

### 2. Screen Mounting

When a screen is stretched (or bungeed) evenly all the way around the screen we call this tensioned (tight like a drum or trampoline). Tensioning provides a flat screen for even light distribution and reduces image waving on the surface. Securing tension-mounted fabrics at the top and bottom, just the sides or only in the corners will not provide a flat surface for even light distribution.

ProGray, ProWhite and SheerWeave cannot be stretched and work best when simply held flat. ProGray and ProWhite are usually stapled directly onto the wall. Do not fold or wrap these stiff screen materials. These materials also work well rolled. These products are available in raw material only.

Do not fold Ambient Light Rejecting (ALR) or Premium HD Impact Materials fold marks will be difficult to remove.

### 3. HD Screen Materials

All of our projector screen materials are compatible for HD projection, though your projector, of course, will need to be capable of projecting a native HD resolution. That said, because Ambient Light Rejection, FlexiWhite and FlexiGray have essentially zero texture, they can provide the sharpest possible picture for your high-definition and 4K projected images.

### 4. 3D Screen Materials

There are two types of 3D; Active 3D (most common) and Passive 3D (2 projectors).

Ambient Light Rejecting material is a specialized product for everyday usage, HD & 4K in a brightly lit environment. It also works for both active 3D and with (2) passive 3D projectors when ambient light is controlled.

FlexiWhite works great for everyday usage, HD &/or Active 3D in a dark viewing environment.

SilverScreen is a specialized product for passive 3D movie viewing and is the best solution for the purpose of passive 3D.

Our other materials are not recommended for 3D usage.

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Which Material is Right for You? (Projector Screen Material Options – Raw Material)

<p><b>FlexiGray</b></p> <ul style="list-style-type: none"> <li>• High contrast gray adds greater contrast with deeper blacks in an environment with low ambient light concerns</li> <li>• Works great with (HD) high-definition projected images</li> <li>• Tension-Mount/Stretch for best results</li> <li>• Indoor/Outdoor (Mildew Resistant)</li> <li>• Portable (Foldable/Flexible)</li> <li>• Bright Projector Recommended</li> <li>• Front-Projection</li> <li>• High Contrast Gray</li> <li>• Gain 0.8</li> </ul>	<p><b>FlexiWhite</b></p> <ul style="list-style-type: none"> <li>• Dark Environment Where Ambient Light is Controlled</li> <li>• Works great with (HD) high-definition projected images</li> <li>• Works great for everyday usage and for Active 3D Movies</li> <li>• Tension-Mount/Stretch for best results</li> <li>• Indoor/Outdoor (Mildew Resistant)</li> <li>• Portable (Foldable/Flexible)</li> <li>• Front-Projection</li> <li>• Bright Matte White</li> <li>• Gain 1.1</li> </ul>	<p><b>Blackout Cloth</b></p> <ul style="list-style-type: none"> <li>• Dark Environment Where Ambient Light is Controlled</li> <li>• Budget-Friendly</li> <li>• Entry Level Cloth Fabric</li> <li>• Tension-Mount/Stretch for best results</li> <li>• Best for indoor use</li> <li>• Front-Projection</li> <li>• Matte White</li> <li>• Gain 1.0</li> </ul>
<p><b>ProGray</b></p> <ul style="list-style-type: none"> <li>• High contrast gray adds greater contrast with deeper blacks in an environment with low to moderate ambient light concerns</li> <li>• Non-tensioned; simply staple to your wall without stretching</li> <li>• Capable of roll down applications</li> <li>• Works Best Indoors</li> <li>• Stiff, Do NOT Fold</li> <li>• Bright Projector Recommended</li> <li>• Front-Projection</li> <li>• High Contrast Gray</li> <li>• Gain 0.8</li> </ul>	<p><b>ProWhite</b></p> <ul style="list-style-type: none"> <li>• Dark Environment Where Ambient Light is Controlled</li> <li>• Non-tensioned; simply staple to your wall without stretching</li> <li>• Capable of roll down applications</li> <li>• Works Best Indoors</li> <li>• Stiff, Do NOT Fold</li> <li>• Front-Projection</li> <li>• Warm Matte White</li> <li>• Gain 1.1</li> </ul>	<p><b>SheerWeave</b></p> <ul style="list-style-type: none"> <li>• Dark Environment Where Ambient Light is Controlled</li> <li>• Acoustically Transparent</li> <li>• Hide the audio equipment behind the screen</li> <li>• 5% Open Weave – Sound Passes Through</li> <li>• Max loss of 4 dB</li> <li>• Non-tensioned; simply staple to your frame without stretching</li> <li>• Works Best Indoors</li> <li>• Stiff, Do NOT Fold</li> <li>• Front-Projection</li> <li>• White</li> <li>• Gain 1.0</li> </ul> <p>Continued...</p>

Gray Rear Projection Film	White Rear Projection Film	SilverScreen for Passive 3D
<ul style="list-style-type: none"> <li>• Best in Dark-Controlled Lighting to Low Ambient Light Environments</li> <li>• Rear-Projection</li> <li>• Hide the projector behind the screen</li> <li>• Translucent; image passes through the screen</li> <li>• Narrower Viewing Angle/Audience Seating</li> <li>• Tension-Mount/Stretch for best results</li> <li>• Indoor/Outdoor (Mildew Resistant)</li> <li>• Portable (Foldable/Flexible)</li> <li>• Bright Projector Recommended</li> <li>• Gain— Not Applicable</li> </ul>	<ul style="list-style-type: none"> <li>• Dark Environment Where Ambient Light is Controlled</li> <li>• Rear OR Front Projection (Dual Sided)</li> <li>• Hide the projector behind the screen</li> <li>• Semi-Translucent; image passes through the screen</li> <li>• Wider Viewing Angle/ Audience Seating Area</li> <li>• Tension-Mount/Stretch for best results</li> <li>• Indoor/Outdoor (Mildew Resistant)</li> <li>• Portable (Foldable/Flexible)</li> <li>• Bright Projector Recommended</li> <li>• Gain— Not Applicable</li> </ul>	<ul style="list-style-type: none"> <li>• Best in Dark-Controlled Lighting to Low Ambient Light Environments</li> <li>• Passive 3D Screen</li> <li>• Excellent contrast, bright color clarity, sharp images, &amp; the projection polarity necessary for Passive 3D projection</li> <li>• (2) Passive 3D Projectors Required</li> <li>• Tension-Mount/Stretch for best results</li> <li>• Indoor/Outdoor (Mildew Resistant)</li> <li>• Portable (Foldable/Flexible)</li> <li>• Front-Projection, Reflective Silver</li> <li>• Gain is approximately 2.0</li> </ul> <p><i>SilverScreen is a specialized product for passive 3D movie viewing and is the best solution for the purpose of passive 3D. It is highly reflective and not necessarily meant for everyday usage - although we have had some people use it that way - it is not our recommendation. Everyday, Non-passive 3D SilverScreen users may experience hotspots when paired with a bright projector.</i></p>

Ask yourself these four questions:

1. Do I have a dark viewing environment or do I have low, moderate or bright light concerns?
2. Do I have specialty requirements such as; 3D Projection, Rear Projection or Acoustically Transparent?
3. Will I be using my projector screen indoors or outdoors where it needs to be mildew resistant?
4. What kind of frame will I be building to install my screen material?
  - a. A ready-made fixed frame kit with the screen material tension-mounted/stretched onto the frame
  - b. A permanent, wooden fixed-frame with the screen material tension-mounted/stretched onto the frame
  - c. A portable frame (kit or truss system) where the screen is tension-mounted, but can be easily removed
  - d. Attach it directly onto the wall, permanently, without building a frame or a roll down application