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What is "GAIN"?

(Front Projection Screen)

The amount by which a surface reflects a projected concentration of light with minimal light absorption. As you move from a point perpendicular to the projected light, the measurement of reflected light will decrease. It is not a percentage of reflective light or a measurement of surface glare (hot/warm spot).

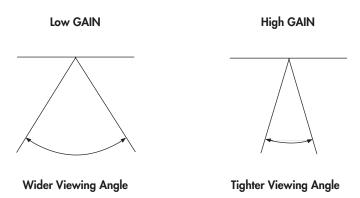A "hot spot" is the point on a satin to glossy surface in which the source light reflects a noticeable glare.

Relevance to Walltalkers

Higher levels of GAIN send back more light, while lower levels of GAIN send back less light. A high GAIN (rear projection or glass beaded projection surface) screen makes an image projected on a screen more easily visible in bright light conditions; however, high GAIN screens may alter the color to some extent.

A matte white projection screen typically has a GAIN of 1. The GAIN of Nu-Vu-Rite™ is 0.945. MatteRite™ is 0.947.

As a screen GAIN increases, the viewing angle typically decreases. Glass-beaded front projection and all rear projection surfaces are considered high GAIN surfaces, typically designed for tight viewing angles. Low GAIN surfaces have a GAIN value of 1, suitable for either tight or wide-angle viewing.

Thank you for your attention to this technical bulletin and for your efforts to promote Walltalkers products.

Low GAIN   **High GAIN**

Wider Viewing Angle   **Tighter Viewing Angle**

(Viewing Cone: The area of the surface for which a
projected image produces the widest angle view)

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Installation Tools / Supplies List

Self-Adhesive Backed Material

- Scraper (to remove any tape or other surface imperfections)

- Mineral Spirits (for cleaning substrate)

- Step Ladder

- Slotted & Phillips Screw Drivers (to remove items such as frame)

- Auto Body Filler or Vinyl Spackle

- Medium & Fine Grit Sandpaper

- Drop Cloths (one to cut material on & one to keep installation area clean)

- Enamel Spray Paint (similar in color to substrate - lightly spot prime patched areas)

- Bucket (with clean water)

- Clean Sponge

- Pencil

- Tape Measure

- 4' Straight Edge or Level

- Razor Knife (with multiple blades)

- Pressurized Spray Bottle (available at hardware stores)

- Clear Dishwashing Detergent

- Flexible Wallcovering Smoother

- Soft Clean Cloths (many)

- 6" Broad Knife (for finish trimming)

Wallcovering Backed Material

Requires the above listed (EXCEPT: Mineral Spirits, Enamel Spray Paint, Auto Body Filler, Pressurized Spray Bottle, and Dishwashing Detergent) and the following:

- Double-Cutting Tool (by Warner Tools or Advance Equipment Manufacturing Co.)

- Paint Roller (with 3/16" nap roller cover for primer and 1/2" nap for adhesive)

- Paint Pan (with disposable liners)

- Quality Acrylic Wallcovering Prep (Professional R-35 or similar for difficult to bond surfaces)

- Joint Compound or similar Patching Compound

- Adhesive (heavy-duty clay or clear, VOV for impervious surfaces)

- Chalk Line (use light color chalk such as white or yellow)

- Paint Brush

- Seam Roller

- Painter's Tape

- Level

Installation Tools / Supplies

For Tac-Wall tackable wallcovering

- Step Ladder

- Heavy Pressure Roller (Korogard Part # R333 or similar)

- Round Edge Seam Roller (available through floor covering stores: Gundlach Part # 1-S or similar)

- 1/16" Square Notched Trowel (Korogard Part # T001 or similar)

- L910 Linoleum Adhesive

- (2) Utility Knives

- Straight Utility Blades

- Wide Throat Hooked Utility Blades

- Roofing Felt or Red Rosin Paper (for pattern making)

- 1' Carpenters Square

- 4' or 6' Straight Edge (available through floor covering stores: Crain Part # 334S and 334)

- Extension Dividers (available through floor covering stores: Gundlach Part # 206C or similar)

- Pencil

- Chalkline

- 25' Tape Measure

- Masking Tape

- Seam & Strip Cutter (Walltalkers Part # T103)

- Seam & Strip Cutter Replacement Straight Blades (Walltalkers Part # T536 or similar; holes in replacement blades must match alignment pins in cutter)

- 4' Level or Plumb

- Bucket of Clean Soapy Water

- Soft Clean Cloths (many)

- Mineral Spirits