



App Note – Creating Skins for the RFID Door Gates

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SST's RFID Door Gates are shipped with plain white surfaces. In most cases, this is adequate but some customers may wish to print their own graphics. The gates were intended to be used with custom graphics but care must be taken to preserve the RFID performance of the gates. This application note will provide you with the information you need to create graphics that will not negatively affect the operation of the gates.

Materials: The most important thing to consider is that the gates use radio frequencies to detect and read tags, therefore anything placed over them must be transparent to these frequencies. Avoid any vinyl material thicker than 0.005 inches. Laminated sheets of 0.005" Mylar with a 0.005" polyester overlay are a good option with good weather/wear resistance. For a more cost effective choice, use a single layer of 0.005" Mylar – it should withstand up to three uses.

Printing: Do not use any printing process that includes metal bearing light stop. Many printers include aluminum or other metals to give a brighter look that is opaque. These types of printing must not be used.

Mounting Methods: There are 2 ways to attach your graphic to the gate: 1) flat panels adhered directly to the front of the gate using double sided tape or similar; and 2) flexible panels that extend all around the gate and are taped to the back of the gate. In either case, be sure to use tape that is removable without damaging the gate.

Panel Size: The gates have 2 front sides that are 56" high by 14" wide. Graphics can cover some or all of this area. If you plan to make wrap around graphics, be sure to add an additional amount to cover the thickness of the panels (1.75" each) and still wrap around to the back for taping.

Single panel front mounted: 56" high by 14" wide

Full panel front mounted: 56" high by 28" wide

Full panel wrap around mounted: 56" high by 34" (allows 1.25" fold over at each end)

Full panel wrap around straight across the back: 56" high by 55" wide (allows for 2.5" overlap at back)

If in doubt as to the applicability of materials, please check with us.