



# Face shield design

Face shields help protect healthcare workers and are a critical form of secondary personal protective equipment (PPE) that is currently in high demand.

This all-purpose face shield design features a thick transparent protective plastic shield with adjustable strap, complimented by a foam head spacer to allow for comfort. The simple design allows the face shield to be cut from a sheet of plastic film using a laser, die or water-jet cutter and does not require complex assembly systems therefore enabling fast production.

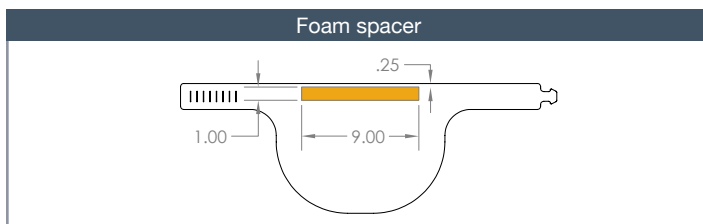
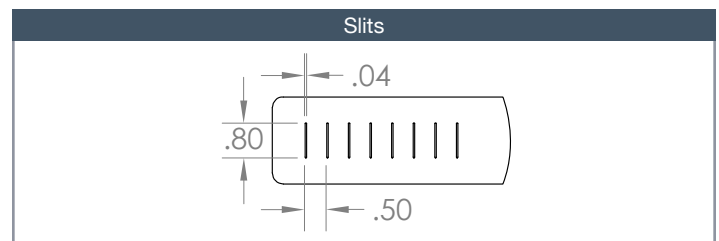
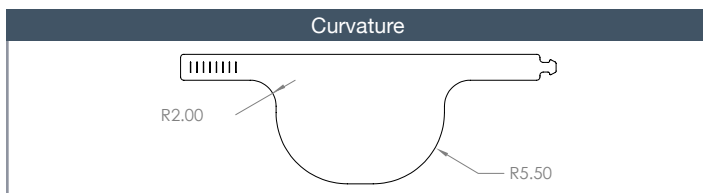
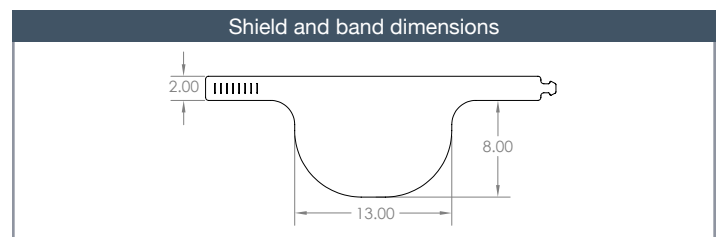
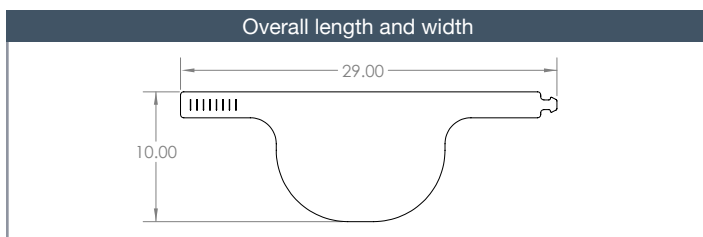


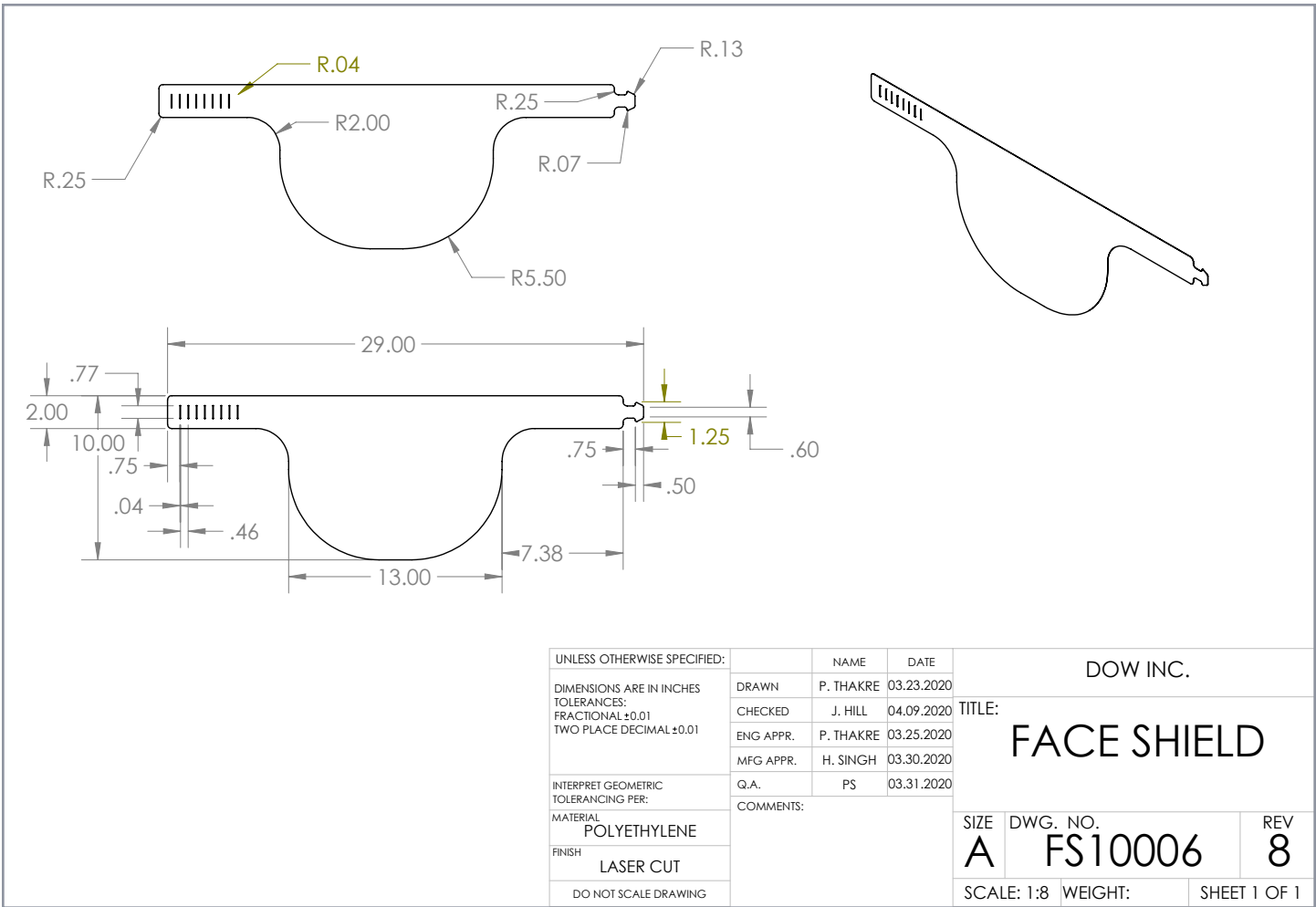
The specifications included below and on page 2 can be used to produce this face shield design. This design is provided here with no warranties. Prototypes developed and used in healthcare and industrial settings have received positive feedback.

## Materials and dimensions

The shield can be made from a variety of materials, such as polyolefins, that provide the right level of stiffness and optical clarity. For the shields Dow produced and tested, a film made from SURLYN™ ionomer resins was used because it had the right balance of stiffness and clarity, and allows for the face shield to be disinfected and reused. A universal open cell foam strip is applied as a head spacer to accommodate safety goggles and N95 face mask.

<b>Shield</b>	Plastic film – 0.010" thick	<b>Head spacer</b>	Polyurethane foam spacer – 9" x 1" x 1"
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Questions and inquiries can be sent to [facshld@dow.com](mailto:facshld@dow.com).



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