“Protective Face Shield”

Materials & Parts

Forehead strap: 1/16-inch polyethylene,
- 1.9cm (¾ inch) wide x 46 cm long
- Punch holes 1 cm in on each side
- Punch holes 9 cm in on each side

Shield strap: 1/16 inch polyethylene
- 1.3 cm (½-inch) wide x 36 cm long
- Punch hole in center or 18 cm
- Punch hole on each edge

Elastic strap: ¾ inch or 1” width
- 14 cm long
- Length can be adjusted depending on the stretch of the elastic material

Transparency Film (clear report cover)
- 9x11 sheet with distal edges rounded
- Landscape orientation

Plastazote: Create padding 1/8-inch thick Zote
- 1.9 cm(3/4 inch) wide x 46 cm long
  - can be made wider for ease of gluing

Small Speedy rivets: 7 pairs
Fabrication Steps:
1) Punch hole at 18 cm (center) of shield strap
2) Punch edge of shield strap at 1cm from each edge
3) Rivet center of transparency paper onto center of the shield strap
4) Punch hole at edge of transparency paper through the paper and the plastic
5) Rivet the edges of the transparency paper to the plastic
6) Rivet shield strap onto the forehead strap
7) Rivet one edge of the elastic strap onto the forehead strap
8) Apply glue to the pad and the forehead strap
9) Place pad onto forehead strap while leaving one edge free to rivet the other side of the strap

10) Rivet the other edge of the strap to the forehead strap

11) Trim foam to the edge of the plastic
12) Clean up foam and clean shield
Appendix