

Emergency FaceShield ET-01 Rev C

Bill of Materials

Face Shield Assembly

QTY	Description	Material	Notes
2	Laser-cut Frame	PETG/ copolyester	Nominal 0.10" THK or greater;
2	Laser-cut Adjustable Sliders	PETG/ copolyester	
1	Face Shield	.020" THK (0.75 mm) PETG/copoly	Alt: THK .010 to .040", report covers, or sheet protectors
4	#8-32 x 1-½ (min) Machine Screws	Stainless Steel (preferred)/steel/brass	Alt: #6-32 x 1-½ machine screws, nuts & washers M4-.7 x 45 (Metric) machine screws, nuts & washers Stainless HDWR can be disinfected in bleach bath (soak).
16	#8-32 Washers		
12	#8-32 Nuts		
2	Nylon wire ties, small	Nylon	Medium width OK, whatever fits the hole in shield
2	1-¼ In length	5/8 OD x 3/8 Wall Pipe Foam Insulation	Cut to length with paper cutter, box cutter, scissors, etc.
36"	1" or 3/4" wide (Single) Belting/Straping	Polypropelene	Alt Matl: :1/8" paracord, soft polymer, rubber band
1	Optional: string for looping around neck	shoelace, polymer string, etc.	Use as required to pull closer to face.

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Tools for Assembly

QTY	Description	Notes
1	#2 Phillips, stubby (more comfortable)	Use appropriate type and size for screws
1	Diagonal or End Cutter/Nipper(s), Small	Look for the ubiquitous six (6) piece "Precision Pliers Set" available at hardware stores
1	Needle Nose Pliers, Small	
1	11/32" Combo Wrench or (deep) Nut Driver (for #8 nuts) ALT: small adjustable wrench	For #6 nuts, use 5/16"; for M4 use 7mm
	320 grit Emory cloth or sandpaper	General deburring of frames & sliders
	400 or higher Emory Cloth/sandpaper	Use to "polish" frame forehead contact areas
1	Fine bastard file (small)	
1	Xacto Knife, box cutter, etc	
1	Deburring Tool	
	6" Rule	
	Trash Can	
	Lighter or candle (flame source)	Use for whipping cut end(s) of strapping.

Production / Prep Area Tooling (Pre-Assembly)

1	Paper Trimmer, Guillotine Paper Cutter	Use for cutting 1-1/4" (32mm) lengths of Foam Insulation
2	Clamps, Squeeze Type	Use to secure the paper cutter
1	Aviation Snips	To cut frame/slider stock material
1	Shear (24"+ width)	Cut Down Stock for Laser
1	Carpenter's Square	
1	Tape Measure	
2	Permanent Marker	
1	Portable Drill	
1	Drill Press	
1	1/4 Drill Bit (for polymer or jobber)	