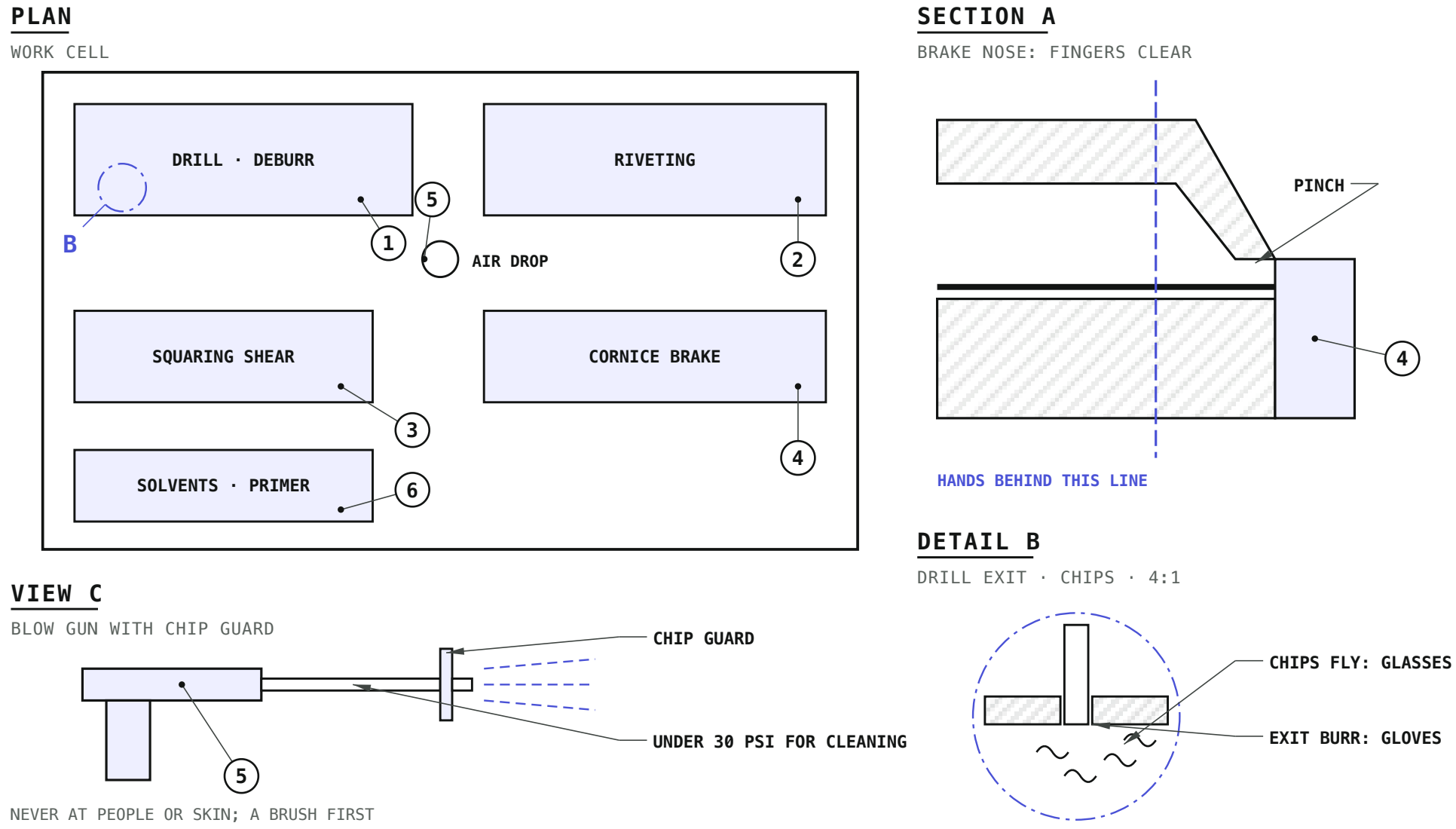
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The Aviation Point.

Shop Safety at the Sheet Metal Bench

Hazards · PPE · rules

REFERENCE DRAWING — NOT APPROVED DATA · THE SRM ALWAYS GOVERNS



PARTS LIST

#	HAZARD	PROTECTION AND CONTROL	SOURCE
1	Chips and burrs	Safety glasses to ANSI Z87.1; clear chips with a brush, not by hand	29 CFR 1910.133
2	Rivet gun noise	Plugs or muffs; hearing programme at 85 dBA, 8-hour average	29 CFR 1910.95
3	Shear and snips	Hands clear of blade and hold-down; gloves to handle cut sheet	29 CFR 1910.138
4	Brake clamp, leaf	Hands out before the clamp closes and the leaf rises	29 CFR 1910.212
5	Compressed air	Cleaning air under 30 psi, with chip guarding and PPE	29 CFR 1910.242(b)
6	Solvents, primers	Nitrile gloves, ventilation, respirator as the SDS says	29 CFR 1910.1200

NOTES

1. Dimensions in inches. Do not scale: the SRM sets the values.
2. For reference. The applicable manual always governs.
3. Based on OSHA 29 CFR 1910.

REVISIONS

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A	First issue	2026

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APPLIES TO: Sheet metal bench			
DO NOT SCALE DRAWING			

The work cell, station by station. Each balloon is a hazard; the list gives its protection and the rule behind it.

Hazards by station

Station	Hazard	Protection	Rule
Drill and deburr	Chips and burrs in the eye or hand	Glasses; brush chips, never by hand	29 CFR 1910.133
Riveting	Noise	Plugs or muffs; hearing programme from 85 dBA, 8-hour average	29 CFR 1910.95
Squaring shear, snips	Cuts, crushed fingers	Hands clear of blade and hold-down; gloves for sheet	29 CFR 1910.212, 1910.138
Cornice brake	Pinch at the clamp and the leaf	Hands out before clamping and while the leaf moves	29 CFR 1910.212
Shop air	Air and chips driven into skin and eyes	Cleaning air under 30 psi, chip guarding, PPE	29 CFR 1910.242(b)
Solvents, primers	Vapour, skin contact, fire	Nitrile gloves, ventilation, SDS, closed containers	29 CFR 1910.1200

Key points

- **Glasses always.** ANSI Z87.1, side shields.
- **Plugs at the rivet gun.** 85 dBA action level.
- **Air under 30 psi** for cleaning, with guarding.

Step by step

1. Glasses on.
2. Hearing protection.
3. Gloves for sheet, none at the drill.
4. Guards in place.
5. Air under 30 psi.
6. SDS for solvents.
7. Clean as you go.

SOURCES · OSHA 29 CFR 1910.133, Eye and face protection · OSHA 29 CFR 1910.95, Occupational noise exposure · OSHA 29 CFR 1910.138, Hand protection · OSHA 29 CFR 1910.212, Machine guarding · OSHA 29 CFR 1910.242, Hand and portable powered tools · OSHA 29 CFR 1910.1200, Hazard communication · FAA-H-8083-30B, AMT Handbook General, ch. 1 · FAA-H-8083-31B, AMT Handbook Airframe, ch. 4

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