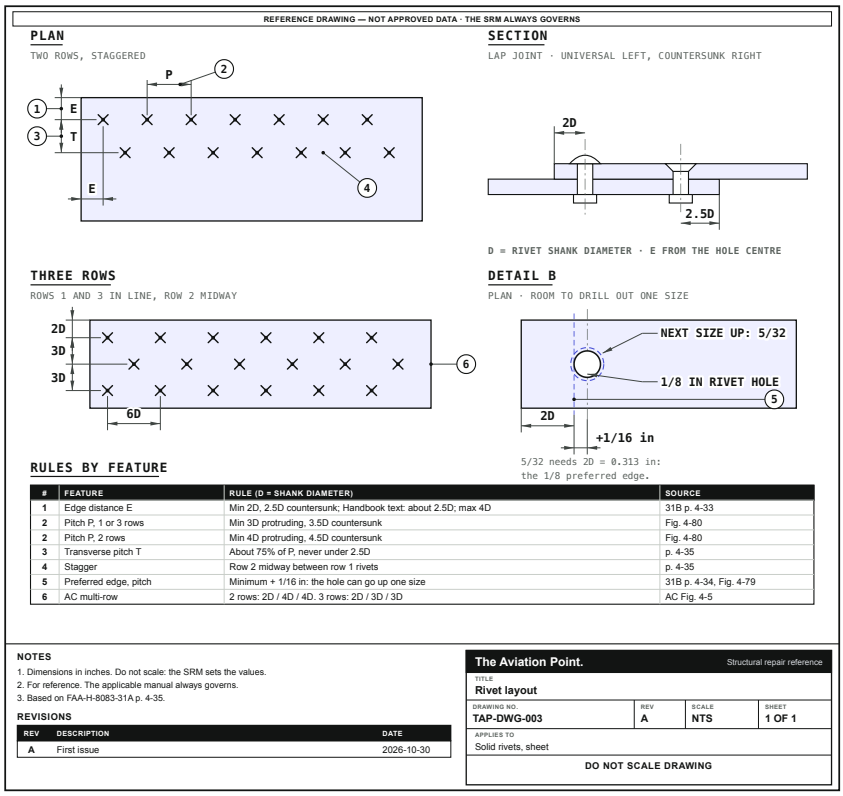
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Rivet Layout: Edge Distance, Pitch and Rows

Edge distance · pitch · transverse pitch · stagger



After FAA-H-8083-31A pp. 4-34 and 4-35, Figs. 4-79 to 4-81, and AC 43.13-1B Fig. 4-5. Typical only: the SRM or the drawing sets the pattern.

The minimums, in diameters

Feature	Protruding head	Countersunk
Edge distance, minimum	2D	2.5D
Edge distance, maximum	4D	4D
Pitch, one or three rows	3D	3.5D
Pitch, two rows	4D	4.5D
Usual pitch	4D to 6D, up to 10D	Larger than protruding
Transverse pitch	About 75% of pitch, never under 2.5D	Same

Where the sources differ

Source	Pitch minimum	Note
Handbook, Fig. 4-80	3D (1 and 3 rows), 4D (2 rows)	Countersunk 3.5D and 4.5D
Handbook, text p. 4-34	3.5D protruding, 4D flush	Not the same as the figure

Source	Pitch minimum	Note
Handbook, bullet p. 4-34	3D for new sections	Edge 2D, rows 2.5D
AC 43.13-1B 4-57c	3D, single row	Edge 2D; Fig. 4-5 for more rows

Key points

- **Copy the original** pattern first; the SRM governs.
- **Edge:** min 2D (2.5D countersunk), max 4D, from the hole centre.
- **Pitch:** min 3D (1 or 3 rows) or 4D (2 rows); countersunk 3.5D and 4.5D.
- **Transverse pitch** about 75% of pitch, never under 2.5D.
- **Add 1/16 in** so a hole can go up one size.

Step by step

1. Find the original pattern or the SRM repair.
2. Set the edge distance at each end of the row.
3. Lay off the pitch between the ends.
4. Stagger row 2 midway; for three rows set 1 and 3 first.
5. Check the minimums for the head type and row count.

SOURCES · FAA-H-8083-31A, AMT Handbook — Airframe, Volume 1, Chapter 4 · FAA-H-8083-31B, AMT Handbook — Airframe, Volume 1, Chapter 4 · FAA AC 43.13-1B CHG 1, Chapter 4

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 Educational reference only, not approved data. Always consult the applicable SRM, AMM, or AC 43.13-1B and your certifying authority.

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