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Fiberglass Cloth Styles Compared

The style number fixes the construction: yarn, weave, count and weight.

Glass fabric styles at a glance

Style	Yarn (warp = fill)	Weave	Weight, oz/yd²	Weight, g/m²	Dry thickness	Count, warp × fill per in	Breaking strength warp / fill, lbf/in
108	ECD 900 1/2 (E)	Plain	1.43	48	2.5 mil (0.06 mm)	60 × 47	80 / 70
1080	ECD 450 1/0 (E)	Plain	1.41	48	2.2 mil (0.06 mm)	60 × 47	120 / 90
120	E	4 harness satin	3.16	107	3.5 mil (0.09 mm)	60 × 58	160 / 160
7580	ECG 75 1/2 (E)	Plain	6.20	210	7.8 mil (0.20 mm)	24 × 14	300 / 200
1581	E	8 harness satin	8.79	298	8.50 mil (0.22 mm)	57 × 54	450 / 380
7781	ECDE 75 1/0 (E)	8 harness satin	8.81	299	8.6 mil (0.22 mm)	57 × 54	570 / 450
6781	SCG 75 1/0 (S)	8 harness satin	8.92	302	9.50 mil (0.24 mm)	57 × 54	550 / 450
7500	ECG 37 1/2 (E)	Plain	9.41	319	11.80 mil (0.30 mm)	16 × 14	420 / 400
7587	ECG 37 1/2 (E)	Mock leno	19.70	668	27.20 mil (0.69 mm)	40 × 21	750 / 450

Key points

- **Not a substitution table.** A different style, weave or finish is a material change that approved data must allow.
- **Dry values only.** Cured ply thickness depends on resin content and compaction.
- **One manufacturer.** Other weavers' sheets for the same style will be close but not identical.

SOURCES · Hexcel HexForce Style 108 Fiber Glass Fabric Product Data · Hexcel HexForce Style 1080 Fiber Glass Fabric Product Data · Hexcel HexForce Style 120 Fiber Glass Fabric Product Data · Hexcel HexForce Style 7580 Fiber Glass Fabric Product Data · Hexcel HexForce Style 1581 Fiber Glass Fabric Product Data · Hexcel HexForce Style 7781 Fiber Glass Fabric Product Data · Hexcel HexForce Style 6781 Fiber Glass Fabric Product Data · Hexcel HexForce Style 7500 Fiber Glass Fabric Product Data · Hexcel HexForce Style 7587 Fiber Glass Fabric Product Data · FAA-H-8083-31B, AMT Handbook — Airframe, Volume 1, Chapter 7

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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.