



QY FRP 38 MM PUBLIC LOAD BENCHMARK EVIDENCE RECORD

Record QY-FRP-BMK-038-01 | Rev. 1.0 | 24 Jul 2026

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STATUS: PUBLIC MANUFACTURER BENCHMARK - NOT A QY LABORATORY TEST CERTIFICATE

Use: RFQ screening and plausibility check only. Final release requires exact-series equivalence or a traceable QY/supplier report.

Source control	External benchmark record A; full identity and page references retained internally
Benchmark geometry	Nominal 1.5 in (38.1 mm) deep; 1.5 x 1.5 in square mesh
Uniform-load basis	Deflection at 50 psf (2.39 kPa); source max recommended load uses published 5:1 safety factor
Point / line basis	300 lb (1.33 kN) point load; 300 lb/ft (4.38 kN/m) line load

Uniform-load screening

Clear span	Deflection at 2.39 kPa	Max recommended load	Evidence class
457 mm / 18 in	<0.25 mm	67.99 kPa	B - public benchmark
610 mm / 24 in	0.51 mm	38.30 kPa	B - public benchmark
762 mm / 30 in	1.27 mm	24.42 kPa	B - public benchmark
914 mm / 36 in	2.54 mm	16.76 kPa	B - public benchmark
1067 mm / 42 in	4.32 mm	12.45 kPa	B - public benchmark
1219 mm / 48 in	7.11 mm	9.58 kPa	B - public benchmark

Point and line-load screening

Clear span	Point defl.	Line defl.	Max rec. line load
457 mm / 18 in	0.51 mm	1.27 mm	15.47 kN/m
610 mm / 24 in	0.76 mm	2.54 mm	11.68 kN/m
762 mm / 30 in	1.52 mm	4.57 mm	9.34 kN/m
914 mm / 36 in	2.29 mm	8.13 mm	7.73 kN/m
1067 mm / 42 in	3.30 mm	11.94 mm	6.57 kN/m
1219 mm / 48 in	4.57 mm	Not published	5.84 kN/m

SOURCE AND CONVERSION CONTROL

External benchmark record A; source identity, revision and pages retained internally.

Conversions: 1 in = 25.4 mm; 1 psf = 0.0478803 kPa; 1 lb = 4.44822 N.

Public values accessed 24 Jul 2026; the internal source document remains controlling.

RELEASE CONDITIONS

1. Match construction, depth, mesh, bar geometry and resin system.
2. Match clear span, bearing, orientation, surface and environment.
3. Do not interpolate blanks or combine data from another series.
4. Record signed equivalence or replace with QY/supplier test evidence.